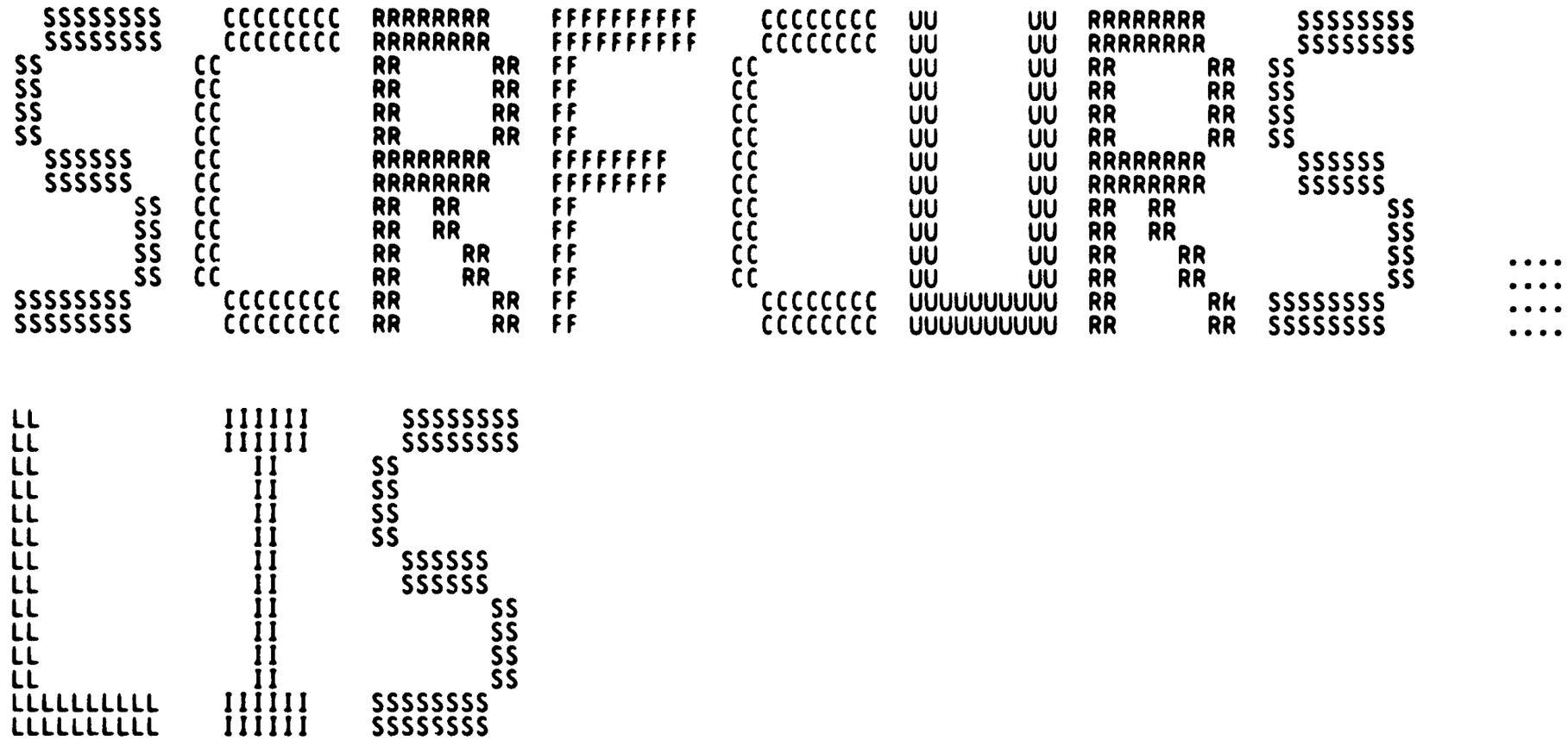
```
EEEEEEEEEEEEEEE  DDDDDDDDDDD     TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD    TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD    TTTTTTTTTTTTTTT
EEE              DDD         DDD       TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEEEEEEEEEEE     DDD          DDD      TTT
EEEEEEEEEEEE     DDD          DDD      TTT
EEEEEEEEEEEE     DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEE              DDD          DDD      TTT
EEEEEEEEEEEEEEE  DDDDDDDDDDD          TTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD         TTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD         TTT
EEEEEEEEEEEEEEE  DDDDDDDDDDDD         TTT
```

FILEID**SCRFCURS



```
;  1          0001  0 %TITLE 'EDT$SCRFCURS - absolute cursor position'
;  2          0002  0 MODULE EDT$SCRFCURS (                          ! Absolute cursor position
;  3          0003  0                     IDENT = 'V04-000'                  ! File: SCRFCURS.BLI Edit: JBS1007
;  4          0004  0                     ) =
;  5          0005  1 BEGIN
;  6          0006  1 !
;  7          0007  1 !**************************************************************************
;  8          0008  1 !*                                                                        *
;  9          0009  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                               *
; 10          0010  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                 *
; 11          0011  1 !*  ALL RIGHTS RESERVED.                                                   *
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; 16          0016  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
; 17          0017  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
; 18          0018  1 !*  TRANSFERRED.                                                           *
; 19          0019  1 !*                                                                        *
; 20          0020  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
; 21          0021  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
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; 23          0023  1 !*                                                                        *
; 24          0024  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
; 25          0025  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
; 26          0026  1 !*                                                                        *
; 27          0027  1 !*                                                                        *
; 28          0028  1 !**************************************************************************
; 29          0029  1 !
; 30          0030  1
; 31          0031  1 !++
; 32          0032  1 ! FACILITY:     EDT -- The DEC Standard Editor
; 33          0033  1 !
; 34          0034  1 ! ABSTRACT:
; 35          0035  1 !
; 36          0036  1 !       This module forces an absolute cursor position sequence to a specified
; 37          0037  1 !       line and position to be placed in the formatted output buffer.
; 38          0038  1 !
; 39          0039  1 ! ENVIRONMENT:  Runs at any access mode - AST reentrant
; 40          0040  1 !
; 41          0041  1 ! AUTHOR: Bob Kushlis, CREATION DATE: September 8, 1979
; 42          0042  1 !
; 43          0043  1 ! MODIFIED BY:
; 44          0044  1 !
; 45          0045  1 ! 1-001 - Original.  DJS 12-Feb-1981.  This module was created by
; 46          0046  1 !       extracting the routine EDT$$SC_POSABS  from module SCREEN.
; 47          0047  1 ! 1-002 - Regularize headers.  JBS 13-Mar-1981
; 48          0048  1 ! 1-004 - Output a CR before positioning to the last column, to defeat
; 49          0049  1 !         autowrap.  JBS 16-Apr-1982
; 50          0050  1 ! 1-005 - Remove edit 1-004, since it doesn't help on a VT100, and use
; 51          0051  1 !         a shorter sequence to position to home.  JBS 07-Oct-1982
; 52          0052  1 ! 1-006 - Don't allow negative cursor locations.  JBS 10-Oct-1982
; 53          0053  1 ! 1-007 - Preserve EDT$$G_FMT_LNPOS, it may be modified by EDT$$FMT_DCML.  JBS 28-Oct-1982
; 54          0054  1 !--
; 55          0055  1
```

```
;    57          0056  1 %SBTTL 'Declarations'
;    58          0057  1 !
;    59          0058  1 ! TABLE OF CONTENTS:
;    60          0059  1 !
;    61          0060  1
;    62          0061  1 REQUIRE 'EDTSRC:TRAROUNAM';
;    63          0500  1
;    64          0501  1 FORWARD ROUTINE
;    65          0502  1     EDT$$SC_POSABS : NOVALUE;
;    66          0503  1
;    67          0504  1 !
;    68          0505  1 ! INCLUDE FILES:
;    69          0506  1 !
;    70          0507  1
;    71          0508  1 REQUIRE 'EDTSRC:EDTREQ';
;    72          0643  1
;    73          0644  1 !
;    74          0645  1 ! MACROS:
;    75          0646  1 !
;    76          0647  1 !       NONE
;    77          0648  1 !
;    78          0649  1 ! EQUATED SYMBOLS:
;    79          0650  1 !
;    80          0651  1 !       NONE
;    81          0652  1 !
;    82          0653  1 ! OWN STORAGE:
;    83          0654  1 !
;    84          0655  1 !       NONE
;    85          0656  1 !
;    86          0657  1 ! EXTERNAL REFERENCES:
;    87          0658  1 !
;    88          0659  1 !       In the routine
```

```
;    90          0660  1 %SBTTL 'EDT$$SC_POSABS  - absolute cursor position'
;    91          0661  1
;    92          0662  1 GLOBAL ROUTINE EDT$$SC_POSABS (                    ! Absolute cursor position
;    93          0663  1     LINE,                                          ! Desired line
;    94          0664  1     POS                                            ! Desired column
;    95          0665  1     ) : NOVALUE =
;    96          0666  1
;    97          0667  1 !++
;    98          0668  1 ! FUNCTIONAL DESCRIPTION:
;    99          0669  1 !
;   100          0670  1 !       This routine forces a cursor position sequence to the specified line
;   101          0671  1 !       and position to be placed in the formatted output buffer.
;   102          0672  1 !
;   103          0673  1 !       The new line and position are saved in EDT$$G_PRV_LN  and
;   104          0674  1 !       EDT$$G_PRV_COL for use by future positions.
;   105          0675  1 !
;   106          0676  1 ! FORMAL PARAMETERS:
;   107          0677  1 !
;   108          0678  1 !  LINE                 Desired line number
;   109          0679  1 !
;   110          0680  1 !  POS                  Desired column number
;   111          0681  1 !
;   112          0682  1 ! IMPLICIT INPUTS:
;   113          0683  1 !
;   114          0684  1 !       EDT$$G_TI_TYP
;   115          0685  1 !
;   116          0686  1 ! IMPLICIT OUTPUTS:
;   117          0687  1 !
;   118          0688  1 !       EDT$$G_PRV_LN
;   119          0689  1 !       EDT$$G_PRV_COL
;   120          0690  1 !
;   121          0691  1 ! ROUTINE VALUE:
;   122          0692  1 !
;   123          0693  1 !       NONE
;   124          0694  1 !
;   125          0695  1 ! SIDE EFFECTS:
;   126          0696  1 !
;   127          0697  1 !       NONE
;   128          0698  1 !
;   129          0699  1 !--
;   130          0700  1
;   131          0701  2     BEGIN
;   132          0702  2
;   133          0703  2     EXTERNAL ROUTINE
;   134          0704  2         EDT$$STORE_FMTCH : NOVALUE,                ! Store a character in the format buffer
;   135          0705  2         EDT$$FMT_DCML : NOVALUE;                   ! Expand a number in decimal into the format buffer
;   136          0706  2
;   137          0707  2     EXTERNAL
;   138          0708  2         EDT$$G_PRV_LN,                             ! Previous line number.
;   139          0709  2         EDT$$G_PRV_COL,                            ! Previous column number.
;   140          0710  2         EDT$$G_TI_TYP,                             ! Terminal type.
;   141          0711  2         EDT$$G_FMT_LNPOS;                          ! Column number for formatting purposes
;   142          0712  2
;   143          0713  2     LOCAL
;   144          0714  2         SAVE_FMTLNPOS;
;   145          0715  2
;   146          0716  2  .
```

```
;  147          0717  2 ! The line and position parameters must not be negative.
;  148          0718  2 !-
;  149          0719  2     ASSERT (.LINE GEQ 0);
;  150          0720  2     ASSERT (.POS GEQ 0);
;  151          0721  2 !+
;  152          0722  2 ! Preserve EDT$$G_FMT_LNPOS, since the call to EDT$$FMT_DCML will modify it,
;  153          0723  2 ! but those characters do not really increment the column.
;  154          0724  2 !-
;  155          0725  2     SAVE_FMTLNPOS = .EDT$$G_FMT_LNPOS;
;  156          0726  2 !+
;  157          0727  2 ! Always start with an escape.
;  158          0728  2 !-
;  159          0729  2     EDT$$STORE_FMTCH (ASC_K_ESC);
;  160          0730  2 !+
;  161          0731  2 ! If this is a VT100, the escape is always followed by a [, to make a CSI.
;  162          0732  2 !-
;  163          0733  2
;  164          0734  2     IF (.EDT$$G_TI_TYP EQL TERM_VT100) THEN EDT$$STORE_FMTCH (%C'[');
;  165          0735  2
;  166          0736  2 !+
;  167          0737  2 ! If we are positioning to home, use the shorter sequence.
;  168          0738  2 !-
;  169          0739  2
;  170          0740  3     IF ((.LINE EQL 0) AND (.POS EQL 0))
;  171          0741  2     THEN
;  172          0742  3         BEGIN
;  173          0743  3         EDT$$STORE_FMTCH (%C'H');
;  174          0744  3         EDT$$G_PRV_LN = .LINE;
;  175          0745  3         EDT$$G_PRV_COL = .POS;
;  176          0746  3         EDT$$G_FMT_LNPOS = .SAVE_FMTLNPOS;
;  177          0747  3         RETURN;
;  178          0748  2         END;
;  179          0749  2
;  180          0750  2 !+
;  181          0751  2 ! We are not positioning to home, use the longer sequence.
;  182          0752  2 !-
;  183          0753  2
;  184          0754  3     IF (.EDT$$G_TI_TYP EQL TERM_VT52)
;  185          0755  2     THEN
;  186          0756  3         BEGIN
;  187          0757  3         EDT$$STORE_FMTCH (%C'Y');
;  188          0758  3         EDT$$STORE_FMTCH (.LINE + 32);
;  189          0759  3         EDT$$STORE_FMTCH (.POS + 32);
;  190          0760  3         EDT$$G_PRV_LN = .LINE;
;  191          0761  3         EDT$$G_PRV_COL = .POS;
;  192          0762  3         EDT$$G_FMT_LNPOS = .SAVE_FMTLNPOS;
;  193          0763  3         RETURN;
;  194          0764  2         END;
;  195          0765  2
;  196          0766  2     ASSERT (.EDT$$G_TI_TYP EQL TERM_VT100);
;  197          0767  2
;  198          0768  2     IF (.LINE NEQ 0) THEN EDT$$FMT_DCML (.LINE + 1);
;  199          0769  2
;  200          0770  3     IF (.POS NEQ 0)
;  201          0771  2     THEN
;  202          0772  3         BEGIN
;  203          0773  3         EDT$$STORE_FMTCH (%C';');
```

```
;  204          0774  3          EDT$$FMT_DCML (.POS + 1);
;  205          0775  2          END;
;  206          0776  2
;  207          0777  2      EDT$$STORE_FMTCH (%C'H');
;  208          0778  2      EDT$$G_PRV_LN = .LINE;
;  209          0779  2      EDT$$G_PRV_COL = .POS;
;  210          0780  2      EDT$$G_FMT_LNPOS = .SAVE_FMTLNPOS;
;  211          0781  1      END;                                    ! of routine EDT$$SC_POSABS


;

                                                                    .TITLE  EDT$SCRFCURS EDT$SCRFCURS - absolute cursor pos
                                                                                    ition
                                                                    .IDENT  \V04-000\

                                                                    .EXTRN  EDT$$STORE_FMTCH
                                                                    .EXTRN  EDT$$FMT_DCML, EDT$$G_PRV_LN
                                                                    .EXTRN  EDT$$G_PRV_COL, EDT$$G_TI_TYP
                                                                    .EXTRN  EDT$$G_FMT_LNPOS
                                                                    .EXTRN  EDT$$INTER_ERR

                                                                    .PSECT  _EDT$CODE,NOWRT,  SHR,  PIC,2

                                                03FC 00000          .ENTRY  EDT$$SC_POSABS, Save R2,R3,R4,R5,R6,R7,R8,- ; 0662
                                                                            R9                                          ;
                                    59 00000000G   00   9E 00002    MOVAB   EDT$$FMT_DCML, R9                           ;
                                    58 00000000G   00   9E 00009    MOVAB   EDT$$G_FMT_LNPOS, R8                        ;
                                    57 00000000G   00   9E 00010    MOVAB   EDT$$INTER_ERR, R7                          ;
                                    56 00000000G   00   9E 00017    MOVAB   EDT$$G_TI_TYP, R6                           ;
                                    55 00000000G   00   9E 0001E    MOVAB   EDT$$STORE_FMTCH, R5                        ;
                                    53       04    AC   D0 00025    MOVL    LINE, R3                                    ; 0719
                                                   03   18 00029    BGEQ    1$                                          ;
                                    67             00   FB 0002B    CALLS   #0, EDT$$INTER_ERR                          ;
                                    52       08    AC   D0 0002E 1$: MOVL    POS, R2                                     ; 0720
                                                   03   18 00032    BGEQ    2$                                          ;
                                    67             00   FB 00034    CALLS   #0, EDT$$INTER_ERR                          ;
                                    54             68   D0 00037 2$: MOVL    EDT$$G_FMT_LNPOS, SAVE_FMTLNPOS             ; 0725
                                                   1B   DD 0003A    PUSHL   #27                                         ; 0729
                                    65             01   FB 0003C    CALLS   #1, EDT$$STORE_FMTCH                        ;
                                    02             66   D1 0003F    CMPL    EDT$$G_TI_TYP, #2                           ; 0734
                                                   07   12 00042    BNEQ    3$                                          ;
                                    7E       5B    8F   9A 00044    MOVZBL  #91, -(SP)                                  ;
                                    65             01   FB 00048    CALLS   #1, EDT$$STORE_FMTCH                        ;
                                                   53   D5 0004B 3$: TSTL    R3                                          ; 0740
                                                   04   12 0004D    BNEQ    4$                                          ;
                                                   52   D5 0004F    TSTL    R2                                          ;
                                                   38   13 00051    BEQL    8$                                          ;
                                    01             66   D1 00053 4$: CMPL    EDT$$G_TI_TYP, #1                           ; 0754
                                                   12   12 00056    BNEQ    5$                                          ;
                                    7E       59    8F   9A 00058    MOVZBL  #89, -(SP)                                  ; 0757
                                    65             01   FB 0005C    CALLS   #1, EDT$$STORE_FMTCH                        ;
                                             20    A3   9F 0005F    PUSHAB  32(R3)                                      ; 0758
                                    65             01   FB 00062    CALLS   #1, EDT$$STORE_FMTCH                        ;
                                             20    A2   9F 00065    PUSHAB  32(R2)                                      ; 0759
                                                   25   11 00068    BRB     9$                                          ;
                                    02             66   D1 0006A 5$: CMPL    EDT$$G_TI_TYP, #2                           ; 0766
                                                   03   13 0006D    BEQL    6$                                          ;
                                    67             00   FB 0006F    CALLS   #0, EDT$$INTER_ERR                          ;
```

```
                                        53  D5 00072 6$:     TSTL    R3                                      ; 0768
                                        06  13 00074       BEQL    7$                                      ;
                                    01  A3  9F 00076       PUSHAB  1(R3)                                   ;
                                69      01  FB 00079       CALLS   #1, EDT$$FMT_DCML                       ;
                                        52  D5 0007C 7$:     TSTL    R2                                      ; 0770
                                        0B  13 0007E       BEQL    8$                                      ;
                                        3B  DD 00080       PUSHL   #59                                     ; 0773
                                65      01  FB 00082       CALLS   #1, EDT$$STORE_FMTCH                    ;
                                    01  A2  9F 00085       PUSHAB  1(R2)                                   ; 0774
                                69      01  FB 00088       CALLS   #1, EDT$$FMT_DCML                       ;
                                7E  48  8F  9A 0008B 8$:     MOVZBL  #72, -(SP)                              ; 0777
                                65      01  FB 0008F 9$:     CALLS   #1, EDT$$STORE_FMTCH                    ;
                    00000000G   00          53  D0 00092       MOVL    R3, EDT$$G_PRV_LN                       ; 0778
                    00000000G   00          52  D0 00099       MOVL    R2, EDT$$G_PRV_COL                      ; 0779
                                68          54  D0 000A0       MOVL    SAVE_FMTLNPOS, EDT$$G_FMT_LNPOS         ; 0780
                                            04  000A3       RET                                             ; 0781

; Routine Size:  164 bytes,    Routine Base:  _EDT$CODE + 0000

;  212          0782  1
;  213          0783  1 !<BLF/PAGE>
```

```
;  215          0784  1 END                                          ! of module EDT$SCRFCRUS
;  216          0785  1
;  217          0786  0 ELUDOM
```

```
;                                       PSECT SUMMARY

;       Name                            Bytes                           Attributes

;  _EDT$CODE                              164  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)


;                                    Library Statistics

;                                             -------- Symbols --------      Pages       Processing
;       File                                  Total    Loaded   Percent      Mapped      Time

;  _$255$DUA28:[EDT.SRC]EDT.L32;1               377         4         1          40        00:00.2
;  _$255$DUA28:[EDT.SRC]PSECTS.L32;1              2         1        50           7        00:00.1
```

```
;                                       COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$:SCRFCURS/OBJ=OBJ$:SCRFCURS MSRC$:SCRFCURS.BLI/UPDATE=(ENH$:SCRF
;       CURS)

; Size:          164 code + 0 data bytes
; Run Time:          00:13.5
; Elapsed Time:      00:19.4
; Lines/CPU Min:      3495
; Lexemes/CPU-Min: 10171
; Memory Used:  90 pages
; Compilation Complete
```

PRNUMRAN
LIS

REAJOUTEX
LIS

PRPARCOMN
LIS

SCRCHKREV
LIS

SCRDELETE
LIS

SCRESCR
LIS

SCRCURS
LIS

PSECTS
LIS

PRMACCAL
LIS

PRPUSH
LIS

SCRFIND
LIS

PRPARCOM
LIS

PRPARDRV
LIS

RANRPOS
LIS

SCRCOMCUR
LIS

RANNEXT
LIS

SCRBLOB
LIS

SCRELINE
LIS

SCRFCURS
LIS

PRSEMRTN
LIS

SAUDIT
LIS