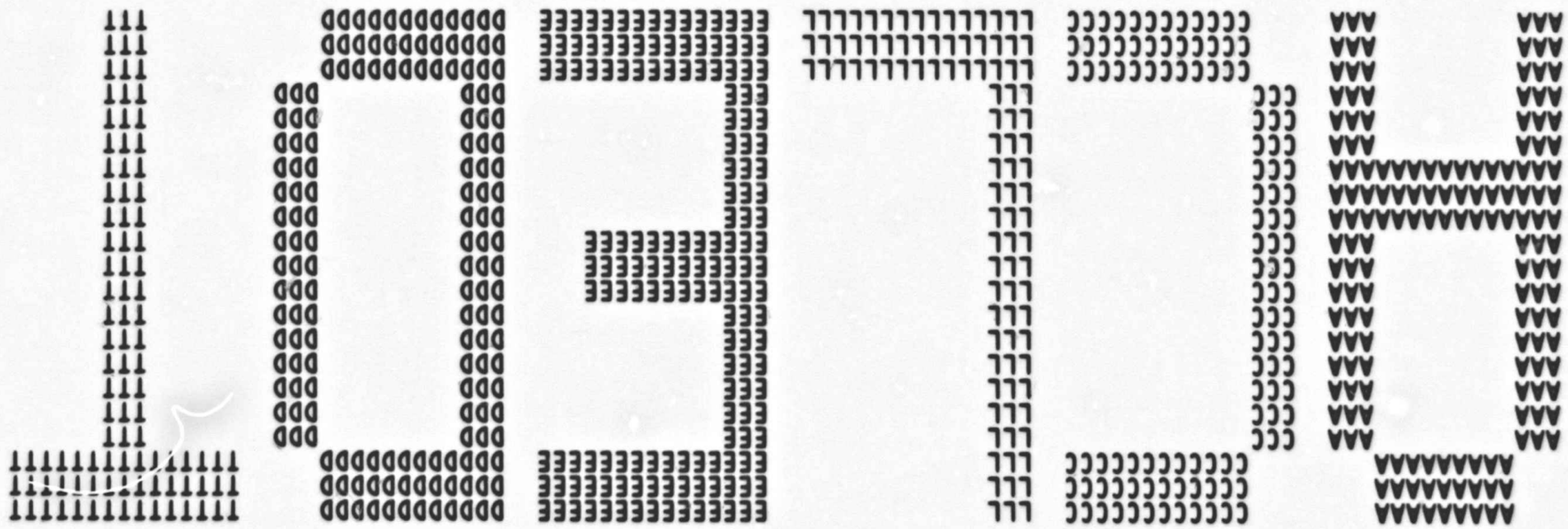

FILEID**AEDINIT

```
  AAAAAA    EEEEEEEEEE  DDDDDDDD     IIIIII   NN      NN   IIIIII    TTTTTTTTTT
  AAAAAA    EEEEEEEEEE  DDDDDDDD     IIIIII   NN      NN   IIIIII    TTTTTTTTTT
AA      AA  EE          DD      DD     II     NN      NN     II          TT
AA      AA  EE          DD      DD     II     NN      NN     II          TT
AA      AA  EE          DD      DD     II     NNNN    NN     II          TT
AA      AA  EE          DD      DD     II     NNNN    NN     II          TT
AA      AA  EEEEEEEE    DD      DD     II     NN  NN  NN     II          TT
AA      AA  EEEEEEEE    DD      DD     II     NN  NN  NN     II          TT
AAAAAAAAAA  EE          DD      DD     II     NN    NNNN     II          TT
AAAAAAAAAA  EE          DD      DD     II     NN    NNNN     II          TT
AA      AA  EE          DD      DD     II     NN      NN     II          TT        ....
AA      AA  EE          DD      DD     II     NN      NN     II          TT        ....
AA      AA  EEEEEEEEEE  DDDDDDDD     IIIIII   NN      NN   IIIIII      TT        ....
AA      AA  EEEEEEEEEE  DDDDDDDD     IIIIII   NN      NN   IIIIII      TT        ....

LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

```
;     1          0001  0 MODULE AED$INIT (
;     2          0002  0                 LANGUAGE (BLISS32),
;     3          0003  0                 IDENT = 'V04-000',
;     4          0004  0                 MAIN = AED_INIT
;     5          0005  0                 ) =
;     6          0006  1 BEGIN
;     7          0007  1
;     8          0008  1 !*****************************************************************************
;     9          0009  1 !*                                                                           *
;    10          0010  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
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;    18          0018  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY     *
;    19          0019  1 !*  TRANSFERRED.                                                              *
;    20          0020  1 !*                                                                           *
;    21          0021  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE     *
;    22          0022  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT     *
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;    24          0024  1 !*                                                                           *
;    25          0025  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS     *
;    26          0026  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                   *
;    27          0027  1 !*                                                                           *
;    28          0028  1 !*                                                                           *
;    29          0029  1 !*****************************************************************************
;    30          0030  1
;    31          0031  1 !++
;    32          0032  1 !
;    33          0033  1 ! FACILITY:     Miscellaneous utilities
;    34          0034  1 !
;    35          0035  1 ! ABSTRACT:
;    36          0036  1 !
;    37          0037  1 !       This module contains the initialization routines for the ACL editor.
;    38          0038  1 !       It also contains some miscellaneous support routine.
;    39          0039  1 !
;    40          0040  1 ! ENVIRONMENT:
;    41          0041  1 !
;    42          0042  1 !       VAX/VMS operating system, user mode utilities.
;    43          0043  1 !
;    44          0044  1 !--
;    45          0045  1 !
;    46          0046  1 !
;    47          0047  1 ! AUTHOR:       L. Mark Pilant          CREATION DATE:  12-Nov-1982  9:50
;    48          0048  1 !
;    49          0049  1 ! MODIFIED BY:
;    50          0050  1 !
;    51          0051  1 !       V03-019 LMP0300         L. Mark Pilant,         9-Aug-1984  9:14
;    52          0052  1 !               Use the correct journal file spec when editing the ACL of a
;    53          0053  1 !               device.
;    54          0054  1 !
;    55          0055  1 !       V03-018 LMP0283         L. Mark Pilant,         25-Jul-1984  12:38
;    56          0056  1 !               Make sure the default object type is a file.
;    57          0057  1 !
```

```
;    58          0058  1 !
;    59          0059  1 !       V03-017 LMP0270         L. Mark Pilant,         29-Jun-1984  8:44
;    60          0060  1 !               Correctly handle a control-C.
;    61          0061  1 !
;    62          0062  1 !       V03-016 LMP0268         L. Mark Pilant,         28-Jun-1984  15:02
;    63          0063  1 !               Dont' delete the journal file if aborting via control-C.
;    64          0064  1 !
;    65          0065  1 !       V03-015 LMP0230         L. Mark Pilant,         16-Apr-1984  9:14
;    66          0066  1 !               Track changes made to the $CHANGE_ACL system service.
;    67          0067  1 !
;    68          0068  1 !       V03-014 LMP0223         L. Mark Pilant,         6-Apr-1984  13:05
;    69          0069  1 !               Use the correct amount of storage for the lock block.
;    70          0070  1 !
;    71          0071  1 !       V03-013 LMP0213         L. Mark Pilant,         24-Mar-1984  12:23
;    72          0072  1 !               Add support for locking and unlocking the object's ACL.
;    73          0073  1 !
;    74          0074  1 !       V03-012 LMP0193         L. Mark Pilant,         14-Feb-1984  11:46
;    75          0075  1 !               Modify the way the journal and recovery files are used.
;    76          0076  1 !               Instead of the ACL, it now logs key-strokes.
;    77          0077  1 !
;    78          0078  1 !       V03-011 LMP0185         L. Mark Pilant,         4-Feb-1984  12:20
;    79          0079  1 !               Add support for device ACLs.
;    80          0080  1 !
;    81          0081  1 !       V03-010 LMP0181         L. Mark Pilant,         15-Dec-1983  9:51
;    82          0082  1 !               Change code to use $CHANGE_ACL instead of the ACP to do
;    83          0083  1 !               ACL twiddling.
;    84          0084  1 !
;    85          0085  1 !       V03-009 LMP0172         L. Mark Pilant,         28-Nov-1983  12:11
;    86          0086  1 !               Numerous bug fixes, support for VT2xx terminals, and a
;    87          0087  1 !               session keystroke logger.
;    88          0088  1 !
;    89          0089  1 !       V03-008 LMP0147         L. Mark Pilant,         29-Aug-1983  9:48
;    90          0090  1 !               Add support for handling multi-line ACEs during initialization.
;    91          0091  1 !
;    92          0092  1 !       V03-007 LMP0144         L. Mark Pilant,         25-Aug-1983  10:12
;    93          0093  1 !               Remember initial state of the keypad.
;    94          0094  1 !
;    95          0095  1 !       V03-006 LMP0142         L. Mark Pilant,         24-Aug-1983  3:18
;    96          0096  1 !               Change references to ACLEDIT$INI to be ACLEDIT$INIT.
;    97          0097  1 !
;    98          0098  1 !       V03-005 LMP0103         L. Mark Pilant,         27-Apr-1983  15:20
;    99          0099  1 !               Add support for HIDDEN and PROTETCED ACEs.
;   100          0100  1 !
;   101          0101  1 !       V03-004 LMP0102         L. Mark Pilant,         19-Apr-1983  14:59
;   102          0102  1 !               Use correct funtion codes when building a file's ACL from a
;   103          0103  1 !               recovery journal file.
;   104          0104  1 !
;   105          0105  1 !       V03-003 LMP0100         L. Mark Pilant,         14-Apr-1983  12:12
;   106          0106  1 !               Add the $FORMAT_ACL and $PARSE_ACL system services.
;   107          0107  1 !
;   108          0108  1 !       V03-002 LMP0076         L. Mark Pilant,         24-Jan-1983  9:06
;   109          0109  1 !               Add support for an action definition file.
;   110          0110  1 !
;   111          0111  1 !       V03-001 LMP0074         L. Mark Pilant,         20-Jan-1983  12:07
;   112          0112  1 !               Add support for handling RMS journal ACE's.
;   113          0113  1 !**
;   114          0114  1
```

```
;  115          0115  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;  116          0116  1 LIBRARY 'SYS$LIBRARY:TPAMAC.L32';
;  117          0117  1 REQUIRE 'SRC$:ACLEDTDEF';
```

```
;  119          0570  1 FORWARD ROUTINE
;  120          0571  1           AED_INIT,                          ! Main intialization/startup routine
;  121          0572  1           AED_FILERROR    : NOVALUE,         ! Common error reporting
;  122          0573  1           AED_CTRLCAST    : NOVALUE,         ! Control-C handler
;  123          0574  1           AED_HANDLER,                       ! ACL editor main handler
;  124          0575  1           AED_PUTOUTPUT;                     ! General purpose output routine
;  125          0576  1
;  126          0577  1 EXTERNAL ROUTINE
;  127          0578  1           AED_PROCESSACL  : NOVALUE,         ! Main ACL processing routine
;  128          0579  1           AED_CLEANUP     : NOVALUE,         ! Termination cleanup routine
;  129          0580  1           AED_GETKEYINI,                     ! Open action definition file
;  130          0581  1           AED_FLUSHKEY,                      ! Flush session keystroke buffer
;  131          0582  1           AED_SET_CURSOR;                    ! Set cursor position
;  132          0583  1
;  133          0584  1 OWN
;  134          0585  1           AED_L_LOCKINFO  : $BBLOCK [ACL$S_RLOCK_ACL],
;  135          0586  1           OBJECT_FAB      : $FAB_DECL,       ! Input object FAB
;  136          0587  1           OBJECT_NAM      : $NAM_DECL;       ! Input object NAM block
```

```
;   138          0588  1 ROUTINE AED_INIT =
;   139          0589  1
;   140          0590  1 !++
;   141          0591  1 !
;   142          0592  1 ! FUNCTIONAL DESCRIPTION:
;   143          0593  1 !
;   144          0594  1 !       This routine is the main routine.  It initializes all variables,
;   145          0595  1 !       parses the input qualifiers and objects, opens journal and recovery
;   146          0596  1 !       files (if necessary), and sets up the scope for editing.
;   147          0597  1 !
;   148          0598  1 !--
;   149          0599  1
;   150          0600  2 BEGIN
;   151          0601  2
;   152          0602  2 LOCAL
;   153          0603  2         VERB_DESC       : $BBLOCK [DSC$C_S_BLN],        ! Invoking DCL verb
;   154          0604  2         CMD_DESC        : $BBLOCK [DSC$C_S_BLN],        ! Invoking DCL verb option
;   155          0605  2         JOURNAL_DESC    : $BBLOCK [DSC$C_S_BLN],        ! Journal file descr
;   156          0606  2         RECOVER_DESC    : $BBLOCK [DSC$C_S_BLN],        ! Revocery file descr
;   157          0607  2         KEEP_DESC       : $BBLOCK [DSC$C_S_BLN],        ! /KEEP value
;   158          0608  2         MODE_DESC       : $BBLOCK [DSC$C_S_BLN],        ! /MODE value
;   159          0609  2         TERM_CHAR       : VECTOR [3],           ! Terminal characteristics
;   160          0610  2         OBJ_EXP_NAME    : $BBLOCK [NAM$C_MAXRSS],       ! Expanded file name
;   161          0611  2         OBJ_RES_NAME    : $BBLOCK [NAM$C_MAXRSS],       ! Resultant file name
;   162          0612  2         JOU_EXP_NAME    : $BBLOCK [NAM$C_MAXRSS],
;   163          0613  2         JOU_RES_NAME    : $BBLOCK [NAM$C_MAXRSS],
;   164          0614  2         REC_EXP_NAME    : $BBLOCK [NAM$C_MAXRSS],
;   165          0615  2         REC_RES_NAME    : $BBLOCK [NAM$C_MAXRSS],
;   166          0616  2         DEVICE_TYPE,                            ! Device type code
;   167          0617  2         DEVICE_CLASS,                           ! Device class code
;   168          0618  2         DEVICE_DEPEND   : $BBLOCK [4],          ! Device information
;   169          0619  2         DEVICE_DEPEND2  : $BBLOCK [4],          ! Additional device info
;   170          0620  2         GETDVI_ARGLIST  : BLOCKVECTOR [6, ITM$S_ITEM, BYTE],    ! GETDVI arg list
;   171          0621  2         ACL_FIB         : $BBLOCK [FIB$C_LENGTH],       ! For ACL context
;   172          0622  2         ACL_FIB_DESC    : $BBLOCK [DSC$C_S_BLN],        ! FIB descriptor
;   173          0623  2         ATR_ARGLIST     : BLOCKVECTOR [2, ITM$S_ITEM, BYTE],    ! ACL attribute descriptor
;   174          0624  2         ACE_POINTER     : REF $BBLOCK,          ! Address of current ACE
;   175          0625  2         ACE_NEWADDR     : REF $BBLOCK,          ! Copy of the header ACE
;   176          0626  2         ACE_DESC        : $BBLOCK [DSC$C_S_BLN],        ! Binary ACE descr
;   177          0627  2         ACE_TEXT_DESC   : $BBLOCK [DSC$C_S_BLN],        ! Text ACE descriptor
;   178          0628  2         ACE_TEXT_SIZE,                          ! Text ACE size
;   179          0629  2         ACE_TEXT        : $BBLOCK [3072],       ! Text ACE storage
;   180          0630  2         NEW_TEXT_LINE   : REF $BBLOCK,          ! Converted line storage addr
;   181          0631  2         FILE_HEADER     : $BBLOCK [512],        ! Storage for the file header
;   182          0632  2         FIRST_CHAR,                             ! Address of first char of segment
;   183          0633  2         LAST_CHAR,                              ! Address of last char of segment
;   184          0634  2         SEGMENT_SIZE,                           ! Size of segment
;   185          0635  2         ACL_CONTEXT;                            ! ACL context for $CHANGE_ACL
;   186          0636  2
;   187          0637  2 ! Initialize common variables and flags
;   188          0638  2
;   189          0639  2 ENABLE AED_HANDLER;
;   190          0640  2
;   191          0641  2 AED_L_FLAGS = 0;
;   192          0642  2 AED_B_OPTIONS = 0;
;   193          0643  2 AED_L_WORSTERR = SS$_NORMAL;
;   194          0644  2 AED_B_LINE = AED_B_COLUMN = 1;
```

```
;  195          0645  2 DEVICE_TYPE = DEVICE_CLASS = 0;
;  196          0646  2 DEVICE_DEPEND = DEVICE_DEPEND2 = 0;
;  197          0647  2
;  198          0648  2 CH$FILL (0, DSC$C_S_BLN, AED_Q_OBJNAM);          ! Initialize the descriptor
;  199          0649  2 AED_Q_OBJNAM[DSC$B_CLASS] = DSC$K_CLASS_D;       ! Dynamic descriptor
;  200          0650  2 CH$MOVE (DSC$C_S_BLN, AED_Q_OBJNAM, VERB_DESC);
;  201          0651  2 CH$MOVE (DSC$C_S_BLN, AED_Q_OBJNAM, CMD_DESC);
;  202          0652  2 CH$MOVE (DSC$C_S_BLN, AED_Q_OBJNAM, JOURNAL_DESC);
;  203          0653  2 CH$MOVE (DSC$C_S_BLN, AED_Q_OBJNAM, RECOVER_DESC);
;  204          0654  2 CH$MOVE (DSC$C_S_BLN, AED_Q_OBJNAM, KEEP_DESC);
;  205          0655  2 CH$MOVE (DSC$C_S_BLN, AED_Q_OBJNAM, MODE_DESC);
;  206          0656  2 CH$MOVE (DSC$C_S_BLN, AED_Q_OBJNAM, ACE_DESC);
;  207          0657  2 CH$MOVE (DSC$C_S_BLN, AED_Q_OBJNAM, ACE_TEXT_DESC);
;  208          0658  2 CH$FILL (0, 6*ITM$S_ITEM, GETDVI_ARGLIST);
;  209          0659  2 CH$FILL (0, 2*ITM$S_ITEM, ATR_ARGLIST);
;  210          0660  2
;  211          0661  2 ! Initialize all of the necessary RMS file data structures.
;  212          0662  2
;  213        P 0663  2 $FAB_INIT (FAB = OBJECT_FAB,
;  214        P 0664  2            FAC = <GET, PUT>,
;  215        P 0665  2            FOP = UFO,
;  216        P 0666  2            NAM = OBJECT_NAM,
;  217          0667  2            SHR = <GET, UPI>);
;  218        P 0668  2 $NAM_INIT (NAM = OBJECT_NAM,
;  219        P 0669  2            ESA = OBJ_EXP_NAME,
;  220        P 0670  2            ESS = NAM$C_MAXRSS,
;  221        P 0671  2            RSA = OBJ_RES_NAME,
;  222          0672  2            RSS = NAM$C_MAXRSS);
;  223          0673  2
;  224        P 0674  2 $FAB_INIT (FAB = JOURNAL_FAB,
;  225        P 0675  2            ALQ = 5,
;  226        P 0676  2            DNA = UPLIT ('.JOU'),
;  227        P 0677  2            DNS = %CHARCOUNT ('.JOU'),
;  228        P 0678  2            FAC = <GET, PUT, TRN, DEL>,
;  229        P 0679  2            FOP = <SQO, OFP>,
;  230        P 0680  2            NAM = JOURNAL_NAM,
;  231        P 0681  2            ORG = SEQ,
;  232        P 0682  2            RFM = VAR,
;  233          0683  2            XAB = JOURNAL_XABPRO);
;  234        P 0684  2 $NAM_INIT (NAM = JOURNAL_NAM,
;  235        P 0685  2            ESA = JOU_EXP_NAME,
;  236        P 0686  2            ESS = NAM$C_MAXRSS,
;  237        P 0687  2            RLF = OBJECT_NAM,
;  238        P 0688  2            RSA = JOU_RES_NAME,
;  239          0689  2            RSS = NAM$C_MAXRSS);
;  240        P 0690  2 $XABPRO_INIT (XAB = JOURNAL_XABPRO,
;  241          0691  2                 PRO = <,RWED,,>);
;  242        P 0692  2 $RAB_INIT (RAB = JOURNAL_RAB,
;  243        P 0693  2            FAB = JOURNAL_FAB,
;  244        P 0694  2            RAC = SEQ,
;  245          0695  2            ROP = TPT);
;  246          0696  2
;  247        P 0697  2 $FAB_INIT (FAB = RECOVER_FAB,
;  248        P 0698  2            DNA = UPLIT ('.JOU'),
;  249        P 0699  2            DNS = %CHARCOUNT ('.JOU'),
;  250        P 0700  2            FAC = <GET, DEL>,
;  251        P 0701  2            FOP = <SQO, OFP>,
```

```
;  252          P 0702  2              NAM = RECOVER_NAM,
;  253          P 0703  2              ORG = SEQ,
;  254            0704  2              RFM = VAR);
;  255          P 0705  2      $NAM_INIT (NAM = RECOVER_NAM,
;  256          P 0706  2                 ESA = REC_EXP_NAME,
;  257          P 0707  2                 ESS = NAM$C_MAXRSS,
;  258          P 0708  2                 RLF = OBJECT_NAM,
;  259          P 0709  2                 RSA = REC_RES_NAME,
;  260            0710  2                 RSS = NAM$C_MAXRSS);
;  261          P 0711  2      $RAB_INIT (RAB = RECOVER_RAB,
;  262          P 0712  2                 FAB = RECOVER_FAB,
;  263            0713  2                 RAC = SEQ);
;  264            0714  2
;  265            0715  2      ! Assign channels for terminal input and output.
;  266            0716  2
;  267          P 0717  2      AED_L_STATUS = $ASSIGN (DEVNAM = $DESCRIPTOR ('SYS$INPUT'),
;  268            0718  2                              CHAN = AED_W_TERMIN);
;  269            0719  2      IF NOT .AED_L_STATUS
;  270            0720  2      THEN
;  271            0721  3          BEGIN
;  272            0722  3          SIGNAL (.AED_L_STATUS);
;  273            0723  3          RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  274            0724  2          END;
;  275            0725  2
;  276          P 0726  2      AED_L_STATUS = $ASSIGN (DEVNAM = $DESCRIPTOR ('SYS$OUTPUT'),
;  277            0727  2                              CHAN = AED_W_TERMOUT);
;  278            0728  2      IF NOT .AED_L_STATUS
;  279            0729  2      THEN
;  280            0730  3          BEGIN
;  281            0731  3          SIGNAL (.AED_L_STATUS);
;  282            0732  3          RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  283            0733  2          END;
;  284            0734  2
;  285            0735  2      ! Get the necessary information about the terminal
;  286            0736  2
;  287            0737  2      GETDVI_ARGLIST[0, ITM$W_ITMCOD] = DVI$_DEVTYPE;
;  288            0738  2      GETDVI_ARGLIST[0, ITM$W_BUFSIZ] = 4;
;  289            0739  2      GETDVI_ARGLIST[0, ITM$L_BUFADR] = DEVICE_TYPE;
;  290            0740  2      GETDVI_ARGLIST[1, ITM$W_ITMCOD] = DVI$_DEVCLASS;
;  291            0741  2      GETDVI_ARGLIST[1, ITM$W_BUFSIZ] = 4;
;  292            0742  2      GETDVI_ARGLIST[1, ITM$L_BUFADR] = DEVICE_CLASS;
;  293            0743  2      GETDVI_ARGLIST[2, ITM$W_ITMCOD] = DVI$_DEVDEPEND;
;  294            0744  2      GETDVI_ARGLIST[2, ITM$W_BUFSIZ] = 4;
;  295            0745  2      GETDVI_ARGLIST[2, ITM$L_BUFADR] = DEVICE_DEPEND;
;  296            0746  2      GETDVI_ARGLIST[3, ITM$W_ITMCOD] = DVI$_DEVDEPEND2;
;  297            0747  2      GETDVI_ARGLIST[3, ITM$W_BUFSIZ] = 4;
;  298            0748  2      GETDVI_ARGLIST[3, ITM$L_BUFADR] = DEVICE_DEPEND2;
;  299            0749  2      GETDVI_ARGLIST[4, ITM$W_ITMCOD] = DVI$_DEVBUFSIZ;
;  300            0750  2      GETDVI_ARGLIST[4, ITM$W_BUFSIZ] = 4;
;  301            0751  2      GETDVI_ARGLIST[4, ITM$L_BUFADR] = AED_L_PAGEWIDTH;
;  302            0752  2
;  303          P 0753  2      AED_L_STATUS = $GETDVI (CHAN = .AED_W_TERMIN,
;  304          P 0754  2                              ITMLST = GETDVI_ARGLIST,
;  305            0755  2                              IOSB = AED_W_IOSB);
;  306            0756  2      IF .AED_L_STATUS THEN AED_L_STATUS = .AED_W_IOSB[0];
;  307            0757  2      IF NOT .AED_L_STATUS
;  308            0758  2      THEN
```

```
;  309          0759  3     BEGIN
;  310          0760  3     SIGNAL (.AED_L_STATUS);
;  311          0761  3     RETURN .AED_[_WORSTERR OR STS$M_INHIB_MSG;
;  312          0762  2     END;
;  313          0763  2
;  314          0764  2 AED_L_PAGESIZE = .DEVICE_DEPEND<24,8>;
;  315          0765  2 IF .DEVICE_CLASS NEQ DC$_TERM THEN AED_L_PAGEWIDTH = 132;
;  316          0766  2 IF .DEVICE_TYPE EQL TT$_VT52
;  317          0767  2 OR .DEVICE_TYPE EQL TT$_VT55
;  318          0768  2 THEN AED_L_FLAGS[AED_V_VT5X] = 1;
;  319          0769  2 IF .DEVICE_DEPEND2[TT2$V_DECCRT] THEN AED_L_FLAGS[AED_V_VT1XX] = 1;
;  320          0770  2 IF .DEVICE_DEPEND2[TT2$V_DECCRT2] THEN AED_L_FLAGS[AED_V_VT2XX] = 1;
;  321          0771  2 AED_L_FLAGS[AED_V_WRAP] = .DEVICE_DEPEND[TT$V_WRAP];
;  322          0772  2 AED_L_FLAGS[AED_V_SCOPE] = .DEVICE_DEPEND[TT$V_SCOPE];
;  323          0773  2 AED_L_FLAGS[AED_V_APPLICAT] = .DEVICE_DEPEND2[TT2$V_APP_KEYPAD];
;  324          0774  2 !AED_[_FLAGS[AED_V_OVERSTRIKE] = NOT .DEVICE_DEPEND2[TT2$V_INSERT];
;  325          0775  2
;  326          0776  2 ! If the terminal is a scope, set it to nowrap, set it to the home position,
;  327          0777  2 ! clear the entire screen, and set the alternate keypad if possible.
;  328          0778  2
;  329          0779  2 IF .AED_L_FLAGS[AED_V_SCOPE]
;  330          0780  2 THEN
;  331          0781  3     BEGIN
;  332        P 0782  3     AED_L_STATUS = $QIOW (CHAN = .AED_W_TERMOUT,
;  333        P 0783  3                           FUNC = IO$_SENSEMODE,
;  334        P 0784  3                           IOSB = AED_W_IOSB,
;  335          0785  3                           P1 = TERM_CHAR);
;  336          0786  3     IF .AED_L_STATUS THEN AED_L_STATUS = .AED_W_IOSB[0];
;  337          0787  3     IF NOT .AED_L_STATUS
;  338          0788  3     THEN
;  339          0789  4         BEGIN
;  340          0790  4         SIGNAL (.AED_L_STATUS);
;  341          0791  4         RETURN .AED_[_WORSTERR OR STS$M_INHIB_MSG;
;  342          0792  3         END;
;  343          0793  3     IF .AED_L_FLAGS[AED_V_WRAP]
;  344          0794  3     THEN
;  345          0795  4         BEGIN
;  346          0796  4         $BBLOCK [TERM_CHAR[1], TT$V_WRAP] = 0;
;  347        P 0797  4         AED_L_STATUS = $QIOW (CHAN = .AED_W_TERMOUT,
;  348        P 0798  4                               FUNC = IO$_SETMODE,
;  349        P 0799  4                               IOSB = AED_W_IOSB,
;  350          0800  4                               P1 = TERM_CHAR);
;  351          0801  4         IF .AED_L_STATUS THEN AED_L_STATUS = .AED_W_IOSB[0];
;  352          0802  4         IF NOT .AED_L_STATUS
;  353          0803  4         THEN
;  354          0804  5             BEGIN
;  355          0805  5             SIGNAL (.AED_L_STATUS);
;  356          0806  5             RETURN .AED_[_WORSTERR OR STS$M_INHIB_MSG;
;  357          0807  4             END;
;  358          0808  3         END;
;  359        P 0809  3     AED_L_STATUS = $QIOW (CHAN = .AED_W_TERMIN,
;  360        P 0810  3                           FUNC = IO$_SETMODE OR IO$M_CTRLCAST,
;  361        P 0811  3                           IOSB = AED_W_IOSB,
;  362          0812  3                           P1 = AED_CTR[CAST);
;  363          0813  3     IF .AED_L_STATUS THEN AED_L_STATUS = .AED_W_IOSB[0];
;  364          0814  3     IF NOT .AED_L_STATUS
;  365          0815  3     THEN
```

```
;  366          0816  4          BEGIN
;  367          0817  4          SIGNAL (.AED_L_STATUS);
;  368          0818  4          RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  369          0819  3          END;
;  370          0820  3      SCR$ERASE_PAGE (1, 1);
;  371          0821  3      SCR$SET_SCROLL (1, 20);                         ! Set up the scrolling region
;  372          0822  4      IF (.AED_L_FLAGS[AED_V_VT5X] OR .AED_L_FLAGS[AED_V_VT1XX])
;  373          0823  3      AND NOT .AED_L_FLAGS[AED_V_APPLICAT]
;  374          0824  3      THEN AED_PUTOUTPUT ($DESCRIPTOR (%CHAR(AED_C_CHAR_ESC),'='));
;  375          0825  2      END;
;  376          0826  2
;  377          0827  2  ! Get the name of the object whose ACL is to be modified.
;  378          0828  2
;  379          0829  2  CLI$GET_VALUE ($DESCRIPTOR ('INPUT'), AED_Q_OBJNAM);
;  380          0830  2
;  381          0831  2  ! Determine what DCL verb and option used to invoke this image.  Also, set the
;  382          0832  2  ! appropriate default object type code.
;  383          0833  2
;  384          0834  2  CLI$GET_VALUE ($DESCRIPTOR ('$VERB'), VERB_DESC);
;  385          0835  2  IF CH$EQL (.VERB_DESC[DSC$W_LENGTH], .VERB_DESC[DSC$A_POINTER],
;  386          0836  2             MINU (.VERB_DESC[DSC$W_LENGTH], %CHARCOUNT ('EDIT')), UPLIT ('EDIT'),
;  387          0837  2             0)
;  388          0838  2  THEN AED_L_OBJTYP = ACL$C_FILE;                      ! Set default type
;  389          0839  2
;  390          0840  2  IF CH$EQL (.VERB_DESC[DSC$W_LENGTH], .VERB_DESC[DSC$A_POINTER],
;  391          0841  2             MINU (.VERB_DESC[DSC$W_LENGTH], %CHARCOUNT ('SET')), UPLIT ('SET'),
;  392          0842  2             0)
;  393          0843  2  THEN
;  394          0844  3      BEGIN
;  395          0845  3      CLI$GET_VALUE ($DESCRIPTOR ('OPTION'), CMD_DESC);
;  396          0846  3      IF CH$EQL (.CMD_DESC[DSC$W_LENGTH], .CMD_DESC[DSC$A_POINTER],
;  397          0847  3                 MINU (.CMD_DESC[DSC$W_LENGTH], %CHARCOUNT ('FILE')), UPLIT ('FILE'),
;  398          0848  3                 0)
;  399          0849  3      THEN
;  400          0850  4          BEGIN
;  401          0851  4          AED_L_FLAGS[AED_V_SET_FILE_CMD] = 1;
;  402          0852  4          AED_L_OBJTYP = ACL$C_FILE;
;  403          0853  3          END;
;  404          0854  3
;  405          0855  3      IF CH$EQL (.CMD_DESC[DSC$W_LENGTH], .CMD_DESC[DSC$A_POINTER],
;  406          0856  3                 MINU (.CMD_DESC[DSC$W_LENGTH], %CHARCOUNT ('DIRECTORY')), UPLIT ('DIRECTORY'),
;  407          0857  3                 0)
;  408          0858  3      THEN
;  409          0859  4          BEGIN
;  410          0860  4          AED_L_FLAGS[AED_V_SET_DIR_CMD] = 1;
;  411          0861  4          AED_L_OBJTYP = ACL$C_FILE;
;  412          0862  3          END;
;  413          0863  3
;  414          0864  3      IF CH$EQL (.CMD_DESC[DSC$W_LENGTH], .CMD_DESC[DSC$A_POINTER],
;  415          0865  3                 MINU (.CMD_DESC[DSC$W_LENGTH], %CHARCOUNT ('DEVICE')), UPLIT ('DEVICE'),
;  416          0866  3                 0)
;  417          0867  3      THEN
;  418          0868  4          BEGIN
;  419          0869  4          AED_L_FLAGS[AED_V_SET_DEV_CMD] = 1;
;  420          0870  4          AED_L_OBJTYP = ACL$C_DEVICE;
;  421          0871  3          END;
;  422          0872  3
```

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;  423          0873  3     IF CH$EQL (.CMD_DESC[DSC$W_LENGTH], .CMD_DESC[DSC$A_POINTER],
;  424          0874  3               MINU (.CMD_DESC[DSC$W_LENGTH], %CHARCOUNT ('ACL')), UPLIT ('ACL'),
;  425          0875  3               0)
;  426          0876  3     THEN
;  427          0877  4         BEGIN
;  428          0878  4         AED_L_FLAGS[AED_V_SET_ACL_CMD] = 1;
;  429          0879  4         AED_L_OBJTYP = ACL$C_FILE;
;  430          0880  3         END;
;  431          0881  2     END;
;  432          0882  2
;  433          0883  2 ! Get the object's type code.
;  434          0884  2
;  435          0885  2 IF CLI$PRESENT ($DESCRIPTOR ('OBJECT_TYPE.FILE')) THEN AED_L_OBJTYP = ACL$C_FILE;
;  436          0886  2 IF CLI$PRESENT ($DESCRIPTOR ('OBJECT_TYPE.DEVICE')) THEN AED_L_OBJTYP = ACL$C_DEVICE;
;  437          0887  2 IF CLI$PRESENT ($DESCRIPTOR ('OBJECT_TYPE.QUEUE')) THEN AED_L_OBJTYP = ACL$C_JOBCTL_QUEUE;
;  438          0888  2 IF CLI$PRESENT ($DESCRIPTOR ('OBJECT_TYPE.EVENT_CLUSTER')) THEN AED_L_OBJTYP = ACL$C_COMMON_EF_CLUSTER;
;  439          0889  2 IF CLI$PRESENT ($DESCRIPTOR ('OBJECT_TYPE.LOGICAL_NAME_TABLE')) THEN AED_L_OBJTYP = ACL$C_LOGICAL_NAME_TABLE
;  440          0890  2 IF CLI$PRESENT ($DESCRIPTOR ('OBJECT_TYPE.PROCESS')) THEN AED_L_OBJTYP = ACL$C_PROCESS;
;  441          0891  2 IF CLI$PRESENT ($DESCRIPTOR ('OBJECT_TYPE.GLOBAL_SECTION')) THEN AED_L_OBJTYP = ACL$C_GLOBAL_SECTION;
;  442          0892  2
;  443          0893  2 ! Parse the verious options that the user may have specified.
;  444          0894  2
;  445          0895  2 IF (AED_B_OPTIONS[AED_V_JOURNAL] = CLI$PRESENT ($DESCRIPTOR ('JOURNAL')))
;  446          0896  2 THEN
;  447          0897  3     BEGIN
;  448          0898  3     CLI$GET_VALUE ($DESCRIPTOR ('JOURNAL'), JOURNAL_DESC);
;  449          0899  3     JOURNAL_RAB[RAB$L_RBF] = JOURNAL_BUFFER;
;  450          0900  3     JOURNAL_RAB[RAB$W_RSZ] = 10;
;  451          0901  3     JOURNAL_INDEX = 0;
;  452          0902  2     END;
;  453          0903  2
;  454          0904  3 IF (AED_B_OPTIONS[AED_V_RECOVER] = CLI$PRESENT ($DESCRIPTOR ('RECOVER')))
;  455          0905  2 THEN
;  456          0906  3     BEGIN
;  457          0907  3     CLI$GET_VALUE ($DESCRIPTOR ('RECOVER'), RECOVER_DESC);
;  458          0908  3     RECOVER_RAB[RAB$L_UBF] = RECOVER_BUFFER;
;  459          0909  3     RECOVER_RAB[RAB$W_USZ] = 10;;
;  460          0910  3     RECOVER_RAB[RAB$W_RSZ] = 0;
;  461          0911  3     RECOVER_INDEX = 0;
;  462          0912  2     END;
;  463          0913  2
;  464          0914  2 AED_B_OPTIONS[AED_V_KEEPREC] = CLI$PRESENT ($DESCRIPTOR ('KEEP.RECOVERY'));
;  465          0915  2 AED_B_OPTIONS[AED_V_KEEPJNL] = CLI$PRESENT ($DESCRIPTOR ('KEEP.JOURNAL'));
;  466          0916  2
;  467          0917  2 AED_L_FLAGS[AED_V_PROMPT] = CLI$PRESENT ($DESCRIPTOR ('MODE.PROMPT'));
;  468          0918  2
;  469          0919  2 ! Now that all of the necessary command line parsing has been done, attempt
;  470          0920  2 ! to lock the object for future ACL modifications.
;  471          0921  2
;  472          0922  2 ATR_ARGLIST[0, ITM$W_ITMCOD] = ACL$C_WLOCK_ACL;
;  473          0923  2 ATR_ARGLIST[0, ITM$W_BUFSIZ] = ACL$S_WLOCK_ACL;
;  474          0924  2 ATR_ARGLIST[0, ITM$L_BUFADR] = AED_L_LOCKINFO;
;  475        P 0925  2 AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
;  476        P 0926  2                             OBJTYP = AED_L_OBJTYP,
;  477        P 0927  2                             OBJNAM = AED_Q_OBJNAM,
;  478          0928  2                             ITMLST = ATR_ARGLIST);
;  479          0929  2 IF NOT .AED_L_STATUS
```

```
;  480          0930  2 THEN
;  481          0931  2     BEGIN
;  482          0932  2     IF .AED_L_STATUS EQL SS$_NOTQUEUED
;  483          0933  2     THEN SIGNAL (AED$_OBJLOCKED)
;  484          0934  2     ELSE SIGNAL (.AED_L_STATUS);
;  485          0935  2     RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  486          0936  2     END;
;  487          0937  2 CH$FILL (0, 2*ITM$S_ITEM, ATR_ARGLIST);
;  488          0938  2
;  489          0939  2 ! If the target object is a file, it is necessary to open the file and get
;  490          0940  2 ! the channel assigned to it.  Otherwise, do a parse to fill in the NAM
;  491          0941  2 ! block necessary for the journal and recovery file names.
;  492          0942  2
;  493          0943  2 IF .AED_L_OBJTYP EQL ACL$C_FILE
;  494          0944  2 THEN
;  495          0945  2     BEGIN
;  496          0946  2     OBJECT_FAB[FAB$L_FNA] = .AED_Q_OBJNAM[DSC$A_POINTER];
;  497          0947  2     OBJECT_FAB[FAB$B_FNS] = .AED_Q_OBJNAM[DSC$W_LENGTH];
;  498          0948  3     IF NOT $OPEN (FAB = OBJECT_FAB)
;  499          0949  3     THEN
;  500          0950  4         BEGIN
;  501          0951  4         AED_FILERROR (AED$_OPENIN, OBJECT_FAB, .OBJECT_FAB[FAB$L_STS],
;  502          0952  4                                                .OBJECT_FAB[FAB$L_STV]);
;  503          0953  4         RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  504          0954  4         END;
;  505          0955  3
;  506          0956  3     AED_Q_OBJNAM[DSC$W_LENGTH] = .OBJECT_NAM[NAM$B_RSL];
;  507          0957  3     AED_Q_OBJNAM[DSC$A_POINTER] = .OBJECT_NAM[NAM$[_RSA];
;  508          0958  3     AED_W_OBJCHAN = .OBJECT_FAB[FAB$L_STV];
;  509          0959  3
;  510          0960  3 ! Determine whether or not the file is a directory file.
;  511          0961  3
;  512          0962  3     ATR_ARGLIST[0, ATR$W_TYPE] = ATR$C_HEADER;
;  513          0963  3     ATR_ARGLIST[0, ATR$W_SIZE] = ATR$S_HEADER;
;  514          0964  3     ATR_ARGLIST[0, ATR$L_ADDR] = FILE_HEADER;
;  515        P 0965  3     AED_L_STATUS = $QIOW (CHAN = .AED_W_OBJCHAN,
;  516        P 0966  3                           FUNC = IO$_ACCESS,
;  517        P 0967  3                           IOSB = AED_W_IOSB,
;  518          0968  3                           P5 = ATR_ARGLIST);
;  519          0969  3     IF .AED_L_STATUS THEN AED_L_STATUS = .AED_W_IOSB[0];
;  520          0970  3     IF NOT .AED_L_STATUS
;  521          0971  3     THEN
;  522          0972  4         BEGIN
;  523          0973  4         SIGNAL (AED$_READERR, 1, AED_Q_OBJNAM, .AED_L_STATUS, 0);
;  524          0974  4         RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  525          0975  4         END;
;  526          0976  3     AED_L_FLAGS[AED_V_DIRECTORY] = .FILE_HEADER[FH2$V_DIRECTORY];
;  527          0977  3     CH$FILL (0, 2*ITM$S_ITEM, ATR_ARGLIST);
;  528          0978  3     END
;  529          0979  2 ELSE
;  530          0980  2     BEGIN
;  531          0981  2     OBJECT_FAB[FAB$L_FNA] = .AED_Q_OBJNAM[DSC$A_POINTER];
;  532          0982  2     OBJECT_FAB[FAB$B_FNS] = .AED_Q_OBJNAM[DSC$W_LENGTH];
;  533          0983  2     IF .AED_L_OBJTYP EQL ACL$C_DEVICE
;  534          0984  2     AND .VECTOR [.AED_Q_OBJNAM[DSC$A_POINTER], .AED_Q_OBJNAM[DSC$W_LENGTH] - 1; , BYTE] EQL ':'
;  535          0985  2     THEN OBJECT_FAB[FAB$B_FNS] = .OBJECT_FAB[FAB$B_FNS] - 1;
;  536          0986  2
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;  537          0987  4      IF NOT $PARSE (FAB = OBJECT_FAB)
;  538          0988  3      THEN
;  539          0989  4          BEGIN
;  540          0990  4          AED_FILERROR (AED$_SYNTAX, OBJECT_FAB, .OBJECT_FAB[FAB$L_STS],
;  541          0991  4                                                 .OBJECT_FAB[FAB$L_STV]);
;  542          0992  4          RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  543          0993  3          END;
;  544          0994  3      OBJECT_NAM[NAM$B_RSL] = .OBJECT_NAM[NAM$B_ESL];
;  545          0995  3      OBJECT_NAM[NAM$L_RSA] = .OBJECT_NAM[NAM$L_ESA];
;  546          0996  3      AED_W_OBJCHAN = 0;
;  547          0997  2      END;
;  548          0998  2
;  549          0999  2  ! Open the journal file and the recovery file if specified.
;  550          1000  2
;  551          1001  2  IF .AED_B_OPTIONS[AED_V_RECOVER]
;  552          1002  2  THEN
;  553          1003  3      BEGIN
;  554          1004  3      RECOVER_FAB[FAB$L_FNA] = .RECOVER_DESC[DSC$A_POINTER];
;  555          1005  3      RECOVER_FAB[FAB$B_FNS] = .RECOVER_DESC[DSC$W_LENGTH];
;  556          1006  4      IF NOT $OPEN (FAB = RECOVER_FAB)
;  557          1007  3      THEN
;  558          1008  4          BEGIN
;  559          1009  4          AED_FILERROR (AED$_RECOPENIN, RECOVER_FAB, .RECOVER_FAB[FAB$L_STS],
;  560          1010  4                                                     .RECOVER_FAB[FAB$L_STV]);
;  561          1011  4          AED_B_OPTIONS[AED_V_RECOVER] = 0;
;  562          1012  4          END
;  563          1013  4      ELSE IF NOT $CONNECT (RAB = RECOVER_RAB)
;  564          1014  3      THEN
;  565          1015  4          BEGIN
;  566          1016  4          AED_FILERROR (AED$_RECOPENIN, RECOVER_FAB, .RECOVER_RAB[RAB$L_STS],
;  567          1017  4                                                     .RECOVER_RAB[RAB$L_STV]);
;  568          1018  4          AED_B_OPTIONS[AED_V_RECOVER] = 0;
;  569          1019  3          END;
;  570          1020  2      END;
;  571          1021  2
;  572          1022  2  IF .AED_B_OPTIONS[AED_V_JOURNAL]
;  573          1023  2  THEN
;  574          1024  3      BEGIN
;  575          1025  3      JOURNAL_FAB[FAB$L_FNA] = .JOURNAL_DESC[DSC$A_POINTER];
;  576          1026  3      JOURNAL_FAB[FAB$B_FNS] = .JOURNAL_DESC[DSC$W_LENGTH];
;  577          1027  4      IF NOT $CREATE (FAB = JOURNAL_FAB)
;  578          1028  3      THEN
;  579          1029  4          BEGIN
;  580          1030  4          AED_FILERROR (AED$_JOUOPENOUT, JOURNAL_FAB, .JOURNAL_FAB[FAB$L_STS],
;  581          1031  4                                                      .JOURNAL_FAB[FAB$L_STV]);
;  582          1032  4          AED_B_OPTIONS[AED_V_JOURNAL] = 0;
;  583          1033  4          END
;  584          1034  4      ELSE IF NOT $CONNECT (RAB = JOURNAL_RAB)
;  585          1035  3      THEN
;  586          1036  4          BEGIN
;  587          1037  4          AED_FILERROR (AED$_JOUOPENOUT, JOURNAL_FAB, .JOURNAL_RAB[RAB$L_STS],
;  588          1038  4                                                      .JOURNAL_RAB[RAB$L_STV]);
;  589          1039  4          AED_B_OPTIONS[AED_V_JOURNAL] = 0;
;  590          1040  3          END;
;  591          1041  2      END;
;  592          1042  2
;  593          1043  2  ! Check for the editor action definition file.  This is pointed to by the
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```
;  594          1044  2 ! logical name ACLEDIT$INIT.  If it does not exist, a set of defaults is used.
;  595          1045  2 ! If it exists, and any errors are encountered opening or reading it, an
;  596          1046  2 ! error message is given, and the ACL editor will exit.
;  597          1047  2
;  598          1048  2 AED_L_STATUS = AED_GETKEYINI ();
;  599          1049  2 IF NOT .AED_L_STATUS THEN RETURN .AED_L_STATUS OR STS$M_INHIB_MSG;
;  600          1050  2
;  601          1051  2 ! Now that the necessary files have been opened, the in core copy of the ACL
;  602          1052  2 ! must be built.
;  603          1053  2
;  604          1054  2 AED_Q_LINETABLE[LINE_L_FLINK] = AED_Q_LINETABLE[LINE_L_FLINK];
;  605          1055  2 AED_Q_LINETABLE[LINE_L_BLINK] = AED_Q_LINETABLE[LINE_L_FLINK];
;  606          1056  2
;  607          1057  2 CH$FILL (0, FIB$C_LENGTH, ACL_FIB);
;  608          1058  2 CH$FILL (0, DSC$C_S_BLN, ACL_FIB_DESC);
;  609          1059  2 ACL_FIB_DESC[DSC$W_LENGTH] = FIB$C_LENGTH;
;  610          1060  2 ACL_FIB_DESC[DSC$A_POINTER] = ACL_FIB;
;  611          1061  2
;  612          1062  2 ! Read any ACL current associated with the object.
;  613          1063  2
;  614          1064  2 AED_L_STATUS = ALLOCATE (512, AED_A_ACLBUFFER);
;  615          1065  2 IF NOT .AED_L_STATUS
;  616          1066  2 THEN
;  617          1067  3     BEGIN
;  618          1068  3     SIGNAL (.AED_L_STATUS);
;  619          1069  3     RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  620          1070  3     END;
;  621          1071  2
;  622          1072  2 ! Read in the ACL.
;  623          1073  2
;  624          1074  2 ACL_CONTEXT = 0;
;  625          1075  2 ATR_ARGLIST[0, ITM$W_ITMCOD] = ACL$C_READACL;
;  626          1076  2 ATR_ARGLIST[0, ITM$W_BUFSIZ] = 512;
;  627          1077  2 ATR_ARGLIST[0, ITM$L_BUFADR] = .AED_A_ACLBUFFER;
;  628          1078  2 WHILE 1
;  629          1079  2 DO
;  630          1080  3     BEGIN
;  631          1081  3     CH$FILL (0, 512, .AED_A_ACLBUFFER);
;  632        P 1082  3     AED_L_STATUS = $CHANGE_ACL (CHAN = .AED_W_OBJCHAN,
;  633        P 1083  3                                 OBJTYP = AED_L_OBJTYP,
;  634        P 1084  3                                 OBJNAM = AED_Q_OBJNAM,
;  635        P 1085  3                                 ITMLST = ATR_ARGLIST,
;  636          1086  3                                 CONTXT = ACL_CONTEXT);
;  637          1087  3     IF NOT .AED_L_STATUS
;  638          1088  3     THEN
;  639          1089  4         BEGIN
;  640          1090  4         IF .AED_L_STATUS EQL SS$_ACLEMPTY OR .AED_L_STATUS EQL SS$_NOMOREACE THEN EXITLOOP;
;  641          1091  4         SIGNAL (AED$_READERR, 1, AED_Q_OBJNAM, .AED_L_STATUS, 0);
;  642          1092  4         RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  643          1093  4         END;
;  644          1094  3     ACE_POINTER = .AED_A_ACLBUFFER;
;  645          1095  3     UNTIL .ACE_POINTER GEQA .AED_A_ACLBUFFER + 512
;  646          1096  3     DO
;  647          1097  4         BEGIN
;  648          1098  4         IF .ACE_POINTER[ACE$B_SIZE] EQL 0 THEN EXITLOOP;
;  649          1099  4         AED_L_STATUS = ALLOCATE (.ACE_POINTER[ACE$B_SIZE], ACE_NEWADDR);
;  650          1100  4         IF NOT .AED_L_STATUS
```

```
;  651          1101  4          THEN
;  652          1102  5              BEGIN
;  653          1103  5              SIGNAL (.AED_L_STATUS);
;  654          1104  5              RETURN .AED_[_WORSTERR OR STS$M_INHIB_MSG;
;  655          1105  4              END;
;  656          1106  4          CH$MOVE (.ACE_POINTER[ACE$B_SIZE], .ACE_POINTER, .ACE_NEWADDR);
;  657          1107  4          ACE_DESC[DSC$A_POINTER] = .ACE_POINTER;
;  658          1108  4          ACE_DESC[DSC$W_LENGTH] = .ACE_POINTER[ACE$B_SIZE];
;  659          1109  4          ACE_TEXT_DESC[DSC$A_POINTER] = ACE_TEXT;
;  660          1110  4          ACE_TEXT_DESC[DSC$W_LENGTH] = 3072;
;  661        P 1111  4          AED_L_STATUS = $FORMAT_ACL (ACLENT = ACE_DESC,
;  662        P 1112  4                                      ACLLEN = ACE_TEXT_DESC,
;  663        P 1113  4                                      ACLSTR = ACE_TEXT_DESC,
;  664        P 1114  4                                      WIDTH = AED_[_PAGEWIDTH,
;  665        P 1115  4                                      TRMDSC = $DESCRIPTOR (0),
;  666          1116  4                                      INDENT = 0);
;  667          1117  4          ACE_TEXT_SIZE = .ACE_TEXT_DESC[DSC$W_LENGTH];
;  668          1118  4          FIRST_CHAR = ACE_TEXT;
;  669          1119  4          AED_L_FIRSTLINE = AED_L_LASTLINE = 0;
;  670          1120  4          WHILE (LAST_CHAR = CH$FIND_CH (.ACE_TEXT_SIZE, .FIRST_CHAR, 0)) GTR 0
;  671          1121  4          DO
;  672          1122  5              BEGIN
;  673          1123  5              SEGMENT_SIZE = .LAST_CHAR - .FIRST_CHAR;
;  674        P 1124  5              AED_L_STATUS = ALLOCATE (.SEGMENT_SIZE + $BYTEOFFSET (LINE_T_TEXT),
;  675          1125  5                                       NEW_TEXT_LINE);
;  676          1126  5              IF NOT .AED_L_STATUS
;  677          1127  5              THEN
;  678          1128  6                  BEGIN
;  679          1129  6                  SIGNAL (.AED_L_STATUS);
;  680          1130  6                  RETURN .AED_[_WORSTERR OR STS$M_INHIB_MSG;
;  681          1131  5                  END;
;  682          1132  5              NEW_TEXT_LINE[LINE_W_SIZE] = .SEGMENT_SIZE;
;  683          1133  5              NEW_TEXT_LINE[LINE_L_BINADE] = .ACE_NEWADDR;
;  684          1134  5              CH$MOVE (.ACE_TEXT_SIZE, .FIRST_CHAR, NEW_TEXT_LINE[LINE_T_TEXT]);
;  685          1135  5              INSQUE (.NEW_TEXT_LINE, .AED_Q_LINETABLE[LINE_[_BLINK]);
;  686          1136  5              IF .AED_L_FIRSTLINE EQL 0 THEN AED_L_FIRSTLINE = .NEW_TEXT_LINE;
;  687          1137  5              AED_L_LASTLINE = .NEW_TEXT_LINE;
;  688          1138  5              FIRST_CHAR = .LAST_CHAR + 1;
;  689          1139  5              ACE_TEXT_SIZE = .ACE_TEXT_SIZE - .SEGMENT_SIZE - 1;
;  690          1140  4              END;
;  691          1141  4          IF .ACE_TEXT_SIZE GTR 0
;  692          1142  4          THEN
;  693          1143  5              BEGIN
;  694        P 1144  5              AED_L_STATUS = ALLOCATE (.ACE_TEXT_SIZE + $BYTEOFFSET (LINE_T_TEXT),
;  695          1145  5                                       NEW_TEXT_LINE);
;  696          1146  5              IF NOT .AED_L_STATUS
;  697          1147  5              THEN
;  698          1148  6                  BEGIN
;  699          1149  6                  SIGNAL (.AED_L_STATUS);
;  700          1150  6                  RETURN .AED_[_WORSTERR OR STS$M_INHIB_MSG;
;  701          1151  5                  END;
;  702          1152  5              NEW_TEXT_LINE[LINE_W_SIZE] = .ACE_TEXT_SIZE;
;  703          1153  5              NEW_TEXT_LINE[LINE_L_BINADE] = .ACE_NEWADDR;
;  704          1154  5              CH$MOVE (.ACE_TEXT_SIZE, .FIRST_CHAR, NEW_TEXT_LINE[LINE_T_TEXT]);
;  705          1155  5              INSQUE (.NEW_TEXT_LINE, .AED_Q_LINETABLE[LINE_[_BLINK]);
;  706          1156  5              IF .AED_L_FIRSTLINE EQL 0 THEN AED_L_FIRSTLINE = .NEW_TEXT_LINE;
;  707          1157  5              AED_L_LASTLINE = .NEW_TEXT_LINE;
```

```
;  708          1158  4              END;
;  709          1159  4          AED_L_FIRSTLINE[LINE_V_BEGINACE] = 1;
;  710          1160  4          IF .ACE_POINTER[ACE$V_HIDDEN]
;  711          1161  5          OR (.ACE_POINTER[ACE$B_TYPE] NEQ ACE$C_KEYID
;  712          1162  5              AND .ACE_POINTER[ACE$B_TYPE] NEQ ACE$C_BIJNL
;  713          1163  5              AND .ACE_POINTER[ACE$B_TYPE] NEQ ACE$C_AIJNL
;  714          1164  5              AND .ACE_POINTER[ACE$B_TYPE] NEQ ACE$C_ATJNL
;  715          1165  5              AND .ACE_POINTER[ACE$B_TYPE] NEQ ACE$C_AUDIT
;  716          1166  5              AND .ACE_POINTER[ACE$B_TYPE] NEQ ACE$C_ALARM
;  717          1167  5              AND .ACE_POINTER[ACE$B_TYPE] NEQ ACE$C_DIRDEF)
;  718          1168  4          THEN AED_L_FIRSTLINE[LINE_V_NOTOUCH] = 1;
;  719          1169  4          AED_L_LASTLINE[LINE_V_ENDACE] = 1;
;  720          1170  4          ACE_POINTER = .ACE_POINTER + .ACE_POINTER[ACE$B_SIZE];
;  721          1171  3          END;
;  722          1172  2      END;
;  723          1173  2  DEALLOCATE (512, AED_A_ACLBUFFER);
;  724          1174  2
;  725          1175  2  ! Now set up the initial display.
;  726          1176  2
;  727          1177  2  IF .AED_Q_LINETABLE[LINE_L_FLINK] NEQA AED_Q_LINETABLE[LINE_L_FLINK]
;  728          1178  2  AND .AED_L_FLAGS[AED_V_SCOPE]
;  729          1179  2  THEN
;  730          1180  3      BEGIN
;  731          1181  3      ACE_NEWADDR = AED_Q_LINETABLE[LINE_L_FLINK];
;  732          1182  3      DO
;  733          1183  4          BEGIN
;  734          1184  4          ACE_NEWADDR = .ACE_NEWADDR[LINE_L_FLINK];
;  735          1185  4          AED_Q_OUTLINE[DSC$W_LENGTH] = .ACE_NEWADDR[LINE_W_SIZE];
;  736          1186  4          AED_Q_OUTLINE[DSC$A_POINTER] = ACE_NEWADDR[LINE_T_TEXT];
;  737          1187  4          AED_SET_CURSOR (.AED_B_LINE, 1);
;  738          1188  4          AED_PUTOUTPUT (AED_Q_OUTLINE);
;  739          1189  4          AED_B_LINE = .AED_B_LINE + 1;
;  740          1190  4          END
;  741          1191  4      UNTIL (.AED_B_LINE GTR 20)
;  742          1192  3         OR (.ACE_NEWADDR[LINE_L_FLINK] EQL AED_Q_LINETABLE[LINE_L_FLINK]);
;  743          1193  3      AED_B_LINE = 1;
;  744          1194  3      AED_SET_CURSOR (1, 1);
;  745          1195  2      END;
;  746          1196  2
;  747          1197  2  ! At this point all of the necessary initialization has been completed.  Now,
;  748          1198  2  ! prompt the user for any modifications to the ACL.
;  749          1199  2
;  750          1200  2  AED_PROCESSACL();
;  751          1201  2
;  752          1202  2  ! All of the ACL processing has been completed.  Do some final cleanup before
;  753          1203  2  ! returning control to the user.
;  754          1204  2
;  755          1205  2  AED_FLUSHKEY ();
;  756          1206  2  AED_CLEANUP ();                                    ! Reset any screen setup done
;  757          1207  2
;  758          1208  2  RETURN .AED_L_WORSTERR OR STS$M_INHIB_MSG;
;  759          1209  2
;  760          1210  1  END;                                               ! End of routine AED_INIT

                                                                .TITLE  AED$INIT
                                                                .IDENT  \V04-000\
```

```
                        .PSECT  AED_COMMON,NOEXE,  OVR,0

00000 AED_L_FLAGS:
                        .BLKB   4
00004 AED_B_OPTIONS:
                        .BLKB   1
00005                   .BLKB   3
00008 AED_L_OBJTYP:
                        .BLKB   4
0000C AED_Q_OBJNAM:
                        .BLKB   8
00014 AED_L_WORSTERR:
                        .BLKB   4
00018 AED_L_PAGEWIDTH:
                        .BLKB   4
0001C AED_L_PAGESIZE:
                        .BLKB   4
00020 AED_B_COLUMN:
                        .BLKB   1
00021                   .BLKB   3
00024 AED_B_LINE:
                        .BLKB   1
00025                   .BLKB   3
00028 AED_B_SAVE_COL:
                        .BLKB   1
00029                   .BLKB   3
0002C AED_B_SAVE_LIN:
                        .BLKB   1
0002D                   .BLKB   3
00030 AED_Q_LINETABLE:
                        .BLKB   12
0003C AED_L_CURACE:
                        .BLKB   4
00040 AED_L_FIRSTLINE:
                        .BLKB   4
00044 AED_L_LASTLINE:
                        .BLKB   4
00048 AED_L_BEGINLINE:
                        .BLKB   4
0004C AED_W_INPUTLEN:
                        .BLKB   2
0004E                   .BLKB   2
00050 AED_Q_DEL_ACE:
                        .BLKB   8
00058 AED_Q_DEL_LINE:
                        .BLKB   8
00060 AED_Q_DEL_WORD:
                        .BLKB   8
00068 AED_B_DEL_CHAR:
                        .BLKB   1
00069                   .BLKB   3
0006C AED_A_ACLBUFFER:
                        .BLKB   4
00070 AED_Q_OUTLINE:
                        .BLKB   8
00078 AED_W_OBJCHAN:
```

```
                        .BLKB   2
0007A                   .BLKB   2
0007C AED_W_TERMIN:
                        .BLKB   2
0007E                   .BLKB   2
00080 AED_W_TERMOUT:
                        .BLKB   2
00082                   .BLKB   2
00084 AED_W_IOSB:
                        .BLKB   8
0008C AED_L_STATUS:
                        .BLKB   4
00090 AED_B_FIELD:
                        .BLKB   1
00091                   .BLKB   3
00094 AED_W_FIELDBEG:
                        .BLKB   2
00096                   .BLKB   2
00098 AED_W_FIELDEND:
                        .BLKB   2
0009A                   .BLKB   2
0009C AED_B_ITEM:
                        .BLKB   1
0009D                   .BLKB   3
000A0 AED_W_ITEMBEG:
                        .BLKB   2
000A2                   .BLKB   2
000A4 AED_W_ITEMEND:
                        .BLKB   2
000A6                   .BLKB   2
000A8 AED_B_ACETYPE:
                        .BLKB   1
000A9                   .BLKB   3
000AC AED_W_JOURNAL:
                        .BLKB   2
000AE                   .BLKB   2
000B0 AED_T_CURLINE:
                        .BLKB   532
002C4 AED_W_TOTALSIZE:
                        .BLKB   2
002C6                   .BLKB   2
002C8 JOURNAL_FAB:
                        .BLKB   80
00318 JOURNAL_NAM:
                        .BLKB   96
00378 JOURNAL_RAB:
                        .BLKB   68
003BC JOURNAL_XABPRO:
                        .BLKB   88
00414 JOURNAL_BUFFER:
                        .BLKB   10
0041E                   .BLKB   2
00420 JOURNAL_INDEX:
                        .BLKB   4
00424 RECOVER_FAB:
                        .BLKB   80
00474 RECOVER_NAM:
```

```
                                                        .BLKB   96
                                        004D4 RECOVER_RAB:
                                                        .BLKB   68
                                        00518 RECOVER_BUFFER:
                                                        .BLKB   10
                                        00522           .BLKB   2
                                        00524 RECOVER_INDEX:
                                                        .BLKB   4

                                                        .PSECT  $PLIT$,NOWRT,NOEXE,2

                                  55 4F 4A 2E   00000 P.AAA:    .ASCII  \.JOU\                  ;
                                  55 4F 4A 2E   00004 P.AAB:    .ASCII  \.JOU\                  ;
                        54 55 50 4E 49 24 53 59 53  00008 P.AAD:    .ASCII  \SYS$INPUT\             ;
                                                    00011           .BLKB   3
                                     00000009       00014 P.AAC:    .LONG   9                       ;
                                     00000000'      00018           .ADDRESS P.AAD                  ;
                     54 55 50 54 55 4F 24 53 59 53  0001C P.AAF:    .ASCII  \SYS$OUTPUT\            ;
                                                    00026           .BLKB   2
                                     0000000A       00028 P.AAE:    .LONG   10                      ;
                                     00000000'      0002C           .ADDRESS P.AAF                  ;
                                           1B       00030 P.AAH:    .ASCII  <27>                    ;
                                           3D       00031           .ASCII  \=\                     ;
                                                    00032           .BLKB   2
                                     00000002       00034 P.AAG:    .LONG   2                       ;
                                     00000000'      00038           .ADDRESS P.AAH                  ;
                              54 55 50 4E 49        0003C P.AAJ:    .ASCII  \INPUT\                 ;
                                                    00041           .BLKB   3
                                     00000005       00044 P.AAI:    .LONG   5                       ;
                                     00000000'      00048           .ADDRESS P.AAJ                  ;
                                 42 52 45 56 24     0004C P.AAL:    .ASCII  \$VERB\                 ;
                                                    00051           .BLKB   3
                                     00000005       00054 P.AAK:    .LONG   5                       ;
                                     00000000'      00058           .ADDRESS P.AAL                  ;
                                 54 49 44 45        0005C P.AAM:    .ASCII  \EDIT\                  ;
                                 00 54 45 53        00060 P.AAN:    .ASCII  \SET\<0>                ;
                              4E 4F 49 54 50 4F     00064 P.AAP:    .ASCII  \OPTION\                ;
                                                    0006A           .BLKB   2
                                     00000006       0006C P.AAO:    .LONG   6                       ;
                                     00000000'      00070           .ADDRESS P.AAP                  ;
                                 45 4C 49 46        00074 P.AAQ:    .ASCII  \FILE\                  ;
                     00 00 00 59 52 4F 54 43 45 52  00078 P.AAR:    .ASCII  \DIRECTORY\<0><0><0>    ;
                              00 00 45 43 49 56 45 44  00084 P.AAS:    .ASCII  \DEVICE\<0><0>          ;
                                 00 4C 43 41        0008C P.AAT:    .ASCII  \ACL\<0>                ;
4C 49 46 2E 45 50 59 54 5F 54 43 45 4A 42 4F 45     00090 P.AAV:    .ASCII  \OBJECT_TYPE.FILE\      ;
                                                    0009F
                                     00000010       000A0 P.AAU:    .LONG   16                      ;
                                     00000000'      000A4           .ADDRESS P.AAV                  ;
56 45 44 2E 45 50 59 54 5F 54 43 45 4A 42 4F       000A8 P.AAX:    .ASCII  \OBJECT_TYPE.DEVICE\    ;
                                                 45 43 49 000B7
                                                    000BA           .BLKB   2
                                     00000012       000BC P.AAW:    .LONG   18                      ;
                                     00000000'      000C0           .ADDRESS P.AAX                  ;
45 55 51 2E 45 50 59 54 5F 54 43 45 4A 42 4F       000C4 P.AAZ:    .ASCII  \OBJECT_TYPE.QUEUE\     ;
                                                    45 55 000D3
                                                    000D5           .BLKB   3
                                     00000011       000D8 P.AAY:    .LONG   17                      ;
```

```
                                                00000000'  000DC                .ADDRESS P.AAZ
45 56 45 2E 45 50 59 54 5F 54 43 45 4A 42 4F  000E0 P.ABB:   .ASCII  \OBJECT_TYPE.EVENT_CLUSTER\
                  52 45 54 53 55 4C 43 5F 54 4E  000EF
                                                000F9        .BLKB   3
                                    00000019    000FC P.ABA: .LONG   25
                                    00000000'   00100        .ADDRESS P.ABB
47 4F 4C 2E 45 50 59 54 5F 54 43 45 4A 42 4F  00104 P.ABD:   .ASCII  \OBJECT_TYPE.LOGICAL_NAME_TABLE\
45 4C 42 41 54 5F 45 4D 41 4E 5F 4C 41 43 49  00113
                                                00122        .BLKB   2
                                    0000001E    00124 P.ABC: .LONG   30
                                    00000000'   00128        .ADDRESS P.ABD
4F 52 50 2E 45 50 59 54 5F 54 43 45 4A 42 4F  0012C P.ABF:   .ASCII  \OBJECT_TYPE.PROCESS\
                                    53 53 45 43  0013B
                                                0013F        .BLKB   1
                                    00000013    00140 P.ABE: .LONG   19
                                    00000000'   00144        .ADDRESS P.ABF
4F 4C 47 2E 45 50 59 54 5F 54 43 45 4A 42 4F  00148 P.ABH:   .ASCII  \OBJECT_TYPE.GLOBAL_SECTION\
                  4E 4F 49 54 43 45 53 5F 4C 41 42  00157
                                                00162        .BLKB   2
                                    0000001A    00164 P.ABG: .LONG   26
                                    00000000'   00168        .ADDRESS P.ABH
                              4C 41 4E 52 55 4F 4A  0016C P.ABJ:   .ASCII  \JOURNAL\
                                                00173        .BLKB   1
                                    00000007    00174 P.ABI: .LONG   7
                                    00000000'   00178        .ADDRESS P.ABJ
                              4C 41 4E 52 55 4F 4A  0017C P.ABL:   .ASCII  \JOURNAL\
                                                00183        .BLKB   1
                                    00000007    00184 P.ABK: .LONG   7
                                    00000000'   00188        .ADDRESS P.ABL
                              52 45 56 4F 43 45 52  0018C P.ABN:   .ASCII  \RECOVER\
                                                00193        .BLKB   1
                                    00000007    00194 P.ABM: .LONG   7
                                    00000000'   00198        .ADDRESS P.ABN
                              52 45 56 4F 43 45 52  0019C P.ABP:   .ASCII  \RECOVER\
                                                001A3        .BLKB   1
                                    00000007    001A4 P.ABO: .LONG   7
                                    00000000'   001A8        .ADDRESS P.ABP
59 52 45 56 4F 43 45 52 2E 50 45 45 4B  001AC P.ABR:   .ASCII  \KEEP.RECOVERY\
                                                001B9        .BLKB   3
                                    0000000D    001BC P.ABQ: .LONG   13
                                    00000000'   001C0        .ADDRESS P.ABR
   4C 41 4E 52 55 4F 4A 2E 50 45 45 4B  001C4 P.ABT:   .ASCII  \KEEP.JOURNAL\
                                    0000000C    001D0 P.ABS: .LONG   12
                                    00000000'   001D4        .ADDRESS P.ABT
      54 50 4D 4F 52 50 2E 45 44 4F 4D  001D8 P.ABV:   .ASCII  \MODE.PROMPT\
                                                001E3        .BLKB   1
                                    0000000B    001E4 P.ABU: .LONG   11
                                    00000000'   001E8        .ADDRESS P.ABV
                                          00    001EC P.ABX: .BYTE   0
                                                001ED        .BLKB   3
                                    00000001    001F0 P.ABW: .LONG   1
                                    00000000'   001F4        .ADDRESS P.ABX

                                                             .PSECT  $OWN$,NOEXE,2

                                                00000 AED_L_LOCKINFO:
                                                             .BLKB   4
```

```
00004 OBJECT_FAB:
                        .BLKB   80
00054 OBJECT_NAM:
                        .BLKB   96

                $RMS_PTR=           OBJECT_FAB
                $RMS_PTR=           OBJECT_NAM
                $RMS_PTR=           JOURNAL_FAB
                $RMS_PTR=           JOURNAL_NAM
                $RMS_PTR=           JOURNAL_XABPRO
                $RMS_PTR=           JOURNAL_RAB
                $RMS_PTR=           RECOVER_FAB
                $RMS_PTR=           RECOVER_NAM
                $RMS_PTR=           RECOVER_RAB
                        .EXTRN  CLI$GET_VALUE, CLI$PRESENT
                        .EXTRN  LIB$FREE_VM, LIB$GET_VM
                        .EXTRN  LIB$TPARSE, SCR$DOWN_SCROLL
                        .EXTRN  SCR$ERASE_LINE, SCR$ERASE_PAGE
                        .EXTRN  SCR$SET_CURSOR, SCR$SET_SCROLL
                        .EXTRN  SCR$UP_SCROLL, AED$_OBJLOCKED
                        .EXTRN  AED$_BADKEEP, AED$_LOCATERR
                        .EXTRN  AED$_INIREADERR
                        .EXTRN  AED$_JOUWRITERR
                        .EXTRN  AED$_JOUOPENOUT
                        .EXTRN  AED$_JOUCLOSOUT
                        .EXTRN  AED$_RECREADERR
                        .EXTRN  AED$_RECOPENIN, AED$_RECLOSEIN
                        .EXTRN  AED$_BADUIC, AED$_BADGRPMEM
                        .EXTRN  AED$_SYNTAX, AED$_BADTYPE
                        .EXTRN  AED$_NOITEMSEL, AED$_MUSTENTER
                        .EXTRN  AED$_INIOPENIN, AED$_INICLOSIN
                        .EXTRN  AED$_DEFSYNTAX, AED$_NODELETE
                        .EXTRN  AED$_NOMODIFY, AED$_NOHIDDEN
                        .EXTRN  AED$_DUPLICATE, AED$_NOCOMBINE
                        .EXTRN  AED$_NODEFAULT, AED$_NOCTRLCHAR
                        .EXTRN  AED$_NOTFOUND, AED$_CONTROL_C
                        .EXTRN  AED$_ACLUPDATED
                        .EXTRN  AED$_NOCHANGE, AED_PROCESSACL
                        .EXTRN  AED_CLEANUP, AED_GETKEYINI
                        .EXTRN  AED_FLUSHKEY, AED_SET_CURSOR
                        .EXTRN  SYS$ASSIGN, LIB$SIGNAL
                        .EXTRN  SYS$GETDVI, SYS$QIOW
                        .EXTRN  SYS$CHANGE_ACL, SYS$OPEN
                        .EXTRN  SYS$PARSE, SYS$CONNECT
                        .EXTRN  SYS$CREATE, SYS$FORMAT_ACL

                        .PSECT  $CODE$,NOWRT,2

                    0FFC 00000 AED_INIT:
                                .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11            ; 0588
                5E      EAEC    CE  9E 00002        MOVAB   -5396(SP), SP               ;
                6D      0D25    CF  DE 00007        MOVAL   110$, (FP)                  ; 0600
                        0000'   CF  D4 0000C        CLRL    AED_L_FLAGS                 ; 0641
                        0000'   CF  94 00010        CLRB    AED_B_OPTIONS               ; 0642
          0000'  CF             01  D0 00014        MOVL    #1, AED_L_WORSTERR          ; 0643
          0000'  CF             01  90 00019        MOVB    #1, AED_B_COLUMN            ; 0644
          0000'  CF             01  90 0001E        MOVB    #1, AED_B_LINE              ;
```

```
                                04  AE  7C 00023      CLRQ    DEVICE_TYPE                                  ; 0645
                                0C  AE  7C 00026      CLRQ    DEVICE_DEPEND                                ; 0646
     08         00          6E      00  2C 00029      MOVC5   #0, (SP), #0, #8, AED_Q_OBJNAM               ; 0648
                              0000'  CF    0002E                                                           ;
                  0000'  CF         02  90 00031      MOVB    #2, AED_Q_OBJNAM+3                           ; 0649
          F8  AD  0000'  CF         08  28 00036      MOVC3   #8, AED_Q_OBJNAM, VERB_DESC                  ; 0650
          F0  AD  0000'  CF         08  28 0003D      MOVC3   #8, AED_Q_OBJNAM, CMD_DESC                   ; 0651
          E8  AD  0000'  CF         08  28 00044      MOVC3   #8, AED_Q_OBJNAM, JOURNAL_DESC               ; 0652
          E0  AD  0000'  CF         08  28 0004B      MOVC3   #8, AED_Q_OBJNAM, RECOVER_DESC               ; 0653
          D8  AD  0000'  CF         08  28 00052      MOVC3   #8, AED_Q_OBJNAM, KEEP_DESC                  ; 0654
          D0  AD  0000'  CF         08  28 00059      MOVC3   #8, AED_Q_OBJNAM, MODE_DESC                  ; 0655
        F914  CD  0000'  CF         08  28 00060      MOVC3   #8, AED_Q_OBJNAM, ACE_DESC                   ; 0656
        F90C  CD  0000'  CF         08  28 00068      MOVC3   #8, AED_Q_OBJNAM, ACE_TEXT_DESC              ; 0657
0048  8F        00          6E      00  2C 00070      MOVC5   #0, (SP), #0, #72, GETDVI_ARGLIST            ; 0658
                              F97C   CD    00077                                                           ;
      18        00          6E      00  2C 0007A      MOVC5   #0, (SP), #0, #24, ATR_ARGLIST               ; 0659
                              F91C   CD    0007F                                                           ;
0050  8F        00          6E      00  2C 00082      MOVC5   #0, (SP), #0, #80, $RMS_PTR                  ; 0667
                              0000'  CF    00089                                                           ;
                  0000'  CF     5003  8F  B0 0008C    MOVW    #20483, $RMS_PTR                             ;
                  0000'  CF 00020000  8F  D0 00093    MOVL    #131072, $RMS_PTR+4                          ;
                  0000'  CF     4203  8F  B0 0009C    MOVW    #16899, $RMS_PTR+22                          ;
                  0000'  CF           02  90 000A3    MOVB    #2, $RMS_PTR+31                              ;
                  0000'  CF    0000'  CF  9E 000A8    MOVAB   OBJECT_NAM, $RMS_PTR+40                      ;
0060  8F        00          6E        00  2C 000AF    MOVC5   #0, (SP), #0, #96, $RMS_PTR                  ; 0672
                              0000'  CF    000B6                                                           ;
                  0000'  CF     6002  8F  B0 000B9    MOVW    #24578, $RMS_PTR                             ;
                  0000'  CF           01  8E 000C0    MNEGB   #1, $RMS_PTR+2                               ;
                  0000'  CF     FDC4  CD  9E 000C5    MOVAB   OBJ_RES_NAME, $RMS_PTR+4                     ;
                  0000'  CF           01  8E 000CC    MNEGB   #1, $RMS_PTR+10                              ;
                  0000'  CF     FEC4  CD  9E 000D1    MOVAB   OBJ_EXP_NAME, $RMS_PTR+12                    ;
0050  8F        00          6E        00  2C 000D8    MOVC5   #0, (SP), #0, #80, $RMS_PTR                  ; 0683
                              0000'  CF    000DF                                                           ;
                  0000'  CF     5003  8F  B0 000E2    MOVW    #20483, $RMS_PTR                             ;
                  0000'  CF 20000040  8F  D0 000E9    MOVL    #536870976, $RMS_PTR+4                       ;
                  0000'  CF           05  D0 000F2    MOVL    #5, $RMS_PTR+16                              ;
                  0000'  CF           17  90 000F7    MOVB    #23, $RMS_PTR+22                             ;
                              0000'  CF  94 000FC    CLRB    $RMS_PTR+29                                  ;
                  0000'  CF           02  90 00100    MOVB    #2, $RMS_PTR+31                              ;
                  0000'  CF    0000'  CF  9E 00105    MOVAB   JOURNAL_XABPRO, $RMS_PTR+36                  ;
                  0000'  CF    0000'  CF  9E 0010C    MOVAB   JOURNAL_NAM, $RMS_PTR+40                     ;
                  0000'  CF    0000'  CF  9E 00113    MOVAB   P.AAA, $RMS_PTR+48                           ;
                  0000'  CF           04  90 0011A    MOVB    #4, $RMS_PTR+53                              ;
0060  8F        00          6E        00  2C 0011F    MOVC5   #0, (SP), #0, #96, $RMS_PTR                  ; 0689
                              0000'  CF    00126                                                           ;
                  0000'  CF     6002  8F  B0 00129    MOVW    #24578, $RMS_PTR                             ;
                  0000'  CF           01  8E 00130    MNEGB   #1, $RMS_PTR+2                               ;
                  0000'  CF     FBC4  CD  9E 00135    MOVAB   JOU_RES_NAME, $RMS_PTR+4                     ;
                  0000'  CF           01  8E 0013C    MNEGB   #1, $RMS_PTR+10                              ;
                  0000'  CF     FCC4  CD  9E 00141    MOVAB   JOU_EXP_NAME, $RMS_PTR+12                    ;
                  0000'  CF    0000'  CF  9E 00148    MOVAB   OBJECT_NAM, $RMS_PTR+16                      ;
0058  8F        00          6E        00  2C 0014F    MOVC5   #0, (SP), #0, #88, $RMS_PTR                  ; 0691
                              0000'  CF    00156                                                           ;
                  0000'  CF     5813  8F  B0 00159    MOVW    #22547, $RMS_PTR                             ;
                  0000'  CF     FF0F  8F  B0 00160    MOVW    #-241, $RMS_PTR+8                            ;
0044  8F        00          6E        00  2C 00167    MOVC5   #0, (SP), #0, #68, $RMS_PTR                  ; 0695
                              0000'  CF    0016E                                                           ;
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                        0000'  CF      4401   8F  B0 00171          MOVW    #17409, $RMS_PTR                                    ;
                        0000'  CF             02  D0 00178          MOVL    #2, $RMS_PTR+4                                      ;
                                       0000'  CF  94 0017D          CLRB    $RMS_PTR+30                                         ;
                        0000'  CF      0000'  CF  9E 00181          MOVAB   JOURNAL_FAB, $RMS_PTR+60                            ;
0050  8F        00              6E             00  2C 00188          MOVC5   #0, (SP), #0, #80, $RMS_PTR                         ; 0704
                                       0000'  CF  0018F
                        0000'  CF      5003   8F  B0 00192          MOVW    #20483, $RMS_PTR                                    ;
                        0000'  CF  20000040   8F  D0 00199          MOVL    #536870976, $RMS_PTR+4                              ;
                        0000'  CF             06  90 001A2          MOVB    #6, $RMS_PTR+22                                     ;
                                       0000'  CF  94 001A7          CLRB    $RMS_PTR+29                                         ;
                        0000'  CF             02  90 001AB          MOVB    #2, $RMS_PTR+31                                     ;
                        0000'  CF      0000'  CF  9E 001B0          MOVAB   RECOVER_NAM, $RMS_PTR+40                            ;
                        0000'  CF      0000'  CF  9E 001B7          MOVAB   P.AAB, $RMS_PTR+48                                  ;
                        0000'  CF             04  90 001BE          MOVB    #4, $RMS_PTR+53                                     ;
0060  8F        00              6E             00  2C 001C3          MOVC5   #0, (SP), #0, #96, $RMS_PTR                         ; 0710
                                       0000'  CF  001CA
                        0000'  CF      6002   8F  B0 001CD          MOVW    #24578, $RMS_PTR                                    ;
                        0000'  CF             01  8E 001D4          MNEGB   #1, $RMS_PTR+2                                      ;
                        0000'  CF      F9C4   CD  9E 001D9          MOVAB   REC_RES_NAME, $RMS_PTR+4                            ;
                        0000'  CF             01  8E 001E0          MNEGB   #1, $RMS_PTR+10                                     ;
                        0000'  CF      FAC4   CD  9E 001E5          MOVAB   REC_EXP_NAME, $RMS_PTR+12                           ;
                        0000'  CF      0000'  CF  9E 001EC          MOVAB   OBJECT_NAM, $RMS_PTR+16                             ;
0044  8F        00              6E             00  2C 001F3          MOVC5   #0, (SP), #0, #68, $RMS_PTR                         ; 0713
                                       0000'  CF  001FA
                        0000'  CF      4401   8F  B0 001FD          MOVW    #17409, $RMS_PTR                                    ;
                                       0000'  CF  94 00204          CLRB    $RMS_PTR+30                                         ;
                        0000'  CF      0000'  CF  9E 00208          MOVAB   RECOVER_FAB, $RMS_PTR+60                            ;
                                              7E  7C 0020F          CLRQ    -(SP)                                               ; 0718
                                       0000'  CF  9F 00211          PUSHAB  AED_W_TERMIN                                        ;
                                       0000'  CF  9F 00215          PUSHAB  P.AAC                                               ;
                    00000000G  00              04  FB 00219          CALLS   #4, SYS$ASSIGN                                      ;
                        0000'  CF             50  D0 00220          MOVL    R0, AED_L_STATUS                                    ;
                               03      0000'  CF  E8 00225          BLBS    AED_L_STATUS, 1$                                    ; 0719
                                                  0996  31 0022A     BRW     93$                                                 ;
                                              7E  7C 0022D  1$:      CLRQ    -(SP)                                               ; 0727
                                       0000'  CF  9F 0022F          PUSHAB  AED_W_TERMOUT                                       ;
                                       0000'  CF  9F 00233          PUSHAB  P.AAE                                               ;
                    00000000G  00              04  FB 00237          CALLS   #4, SYS$ASSIGN                                      ;
                        0000'  CF             50  D0 0023E          MOVL    R0, AED_L_STATUS                                    ;
                               79      0000'  CF  E9 00243          BLBC    AED_L_STATUS, 2$                                    ; 0728
                    F97C       CD  00060004   8F  D0 00248          MOVL    #393220, GETDVI_ARGLIST                             ; 0738
                    F980       CD        04   AE  9E 00251          MOVAB   DEVICE_TYPE, GETDVI_ARGLIST+4                       ; 0739
                    F988       CD  00040004   8F  D0 00257          MOVL    #262148, GETDVI_ARGLIST+12                          ; 0741
                    F98C       CD        08   AE  9E 00260          MOVAB   DEVICE_CLASS, GETDVI_ARGLIST+16                     ; 0742
                    F994       CD  000A0004   8F  D0 00266          MOVL    #655364, GETDVI_ARGLIST+24                          ; 0744
                    F998       CD        0C   AE  9E 0026F          MOVAB   DEVICE_DEPEND, GETDVI_ARGLIST+28                    ; 0745
                    F9A0       CD  001C0004   8F  D0 00275          MOVL    #1835012, GETDVI_ARGLIST+36                         ; 0747
                    F9A4       CD        10   AE  9E 0027E          MOVAB   DEVICE_DEPEND2, GETDVI_ARGLIST+40                   ; 0748
                    F9AC       CD  00080004   8F  D0 00284          MOVL    #524292, GETDVI_ARGLIST+48                          ; 0750
                    F9B0       CD      0000'  CF  9E 0028D          MOVAB   AED_L_PAGEWIDTH, GETDVI_ARGLIST+52                  ; 0751
                                              7E  7C 00294          CLRQ    -(SP)                                               ; 0755
                                              7E  D4 00296          CLRL    -(SP)                                               ;
                                       0000'  CF  9F 00298          PUSHAB  AED_W_IOSB                                          ;
                                       F97C   CD  9F 0029C          PUSHAB  GETDVI_ARGLIST                                      ;
                                              7E  D4 002A0          CLRL    -(SP)                                               ;
                                   7E  0000'  CF  3C 002A2          MOVZWL  AED_W_TERMIN, -(SP)                                 ;
                                              7E  D4 002A7          CLRL    -(SP)                                               ;
```

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                      00000000G  00            08  FB 002A9        CALLS   #8, SYS$GETDVI                          ;
                          0000'  CF            50  D0 002B0        MOVL    R0, AED_L_STATUS                        ;
                                 07   0000'    CF  E9 002B5        BLBC    AED_L_STATUS, 2$                        ; 0756
                          0000'  CF   0000'    CF  3C 002BA        MOVZWL  AED_W_IOSB, AED_L_STATUS                ;
                                 03   0000'    CF  E8 002C1 2$:    BLBS    AED_L_STATUS, 3$                        ; 0757
                                             00E7  31 002C6        BRW     10$                                     ;
                          0000'  CF      0F    AE  9A 002C9 3$:    MOVZBL  DEVICE_DEPEND+3, AED_L_PAGESIZE         ; 0764
                      00000042   8F      08    AE  D1 002CF        CMPL    DEVICE_CLASS, #66                       ; 0765
                                               06  13 002D7        BEQL    4$                                      ;
                          0000'  CF      84    8F  9A 002D9        MOVZBL  #132, AED_L_PAGEWIDTH                   ;
                      00000040   8F      04    AE  D1 002DF 4$:    CMPL    DEVICE_TYPE, #64                        ; 0766
                                               0A  13 002E7        BEQL    5$                                      ;
                      00000041   8F      04    AE  D1 002E9        CMPL    DEVICE_TYPE, #65                        ; 0767
                                               05  12 002F1        BNEQ    6$                                      ;
                          0000'  CF            01  88 002F3 5$:    BISB2   #1, AED_L_FLAGS                         ; 0768
                  05         13  AE            05  E1 002F8 6$:    BBC     #5, DEVICE_DEPEND2+3, 7$                ; 0769
                          0000'  CF            02  88 002FD        BISB2   #2, AED_L_FLAGS                         ;
                  05         13  AE            06  E1 00302 7$:    BBC     #6, DEVICE_DEPEND2+3, 8$                ; 0770
                          0000'  CF            04  88 00307        BISB2   #4, AED_L_FLAGS                         ;
      50        0D   AE      01                01  EF 0030C 8$:    EXTZV   #1, #1, DEVICE_DEPEND+1, R0             ; 0771
   0000'  CF         01      04                50  F0 00312        INSV    R0, #4, #1, AED_L_FLAGS                 ;
      50        0D   AE      01                04  EF 00319        EXTZV   #4, #1, DEVICE_DEPEND+1, R0             ; 0772
   0000'  CF         01      03                50  F0 0031F        INSV    R0, #3, #1, AED_L_FLAGS                 ;
      50        12   AE      01                07  EF 00326        EXTZV   #7, #1, DEVICE_DEPEND2+2, R0            ; 0773
   0000'  CF         01      06                50  F0 0032C        INSV    R0, #6, #1, AED_L_FLAGS+2               ;
                     03   0000'  CF            03  E0 00333        BBS     #3, AED_L_FLAGS, 9$                     ; 0779
                                             011C  31 00339        BRW     19$                                     ;
                                               7E  7C 0033C 9$:    CLRQ    -(SP)                                   ; 0785
                                               7E  7C 0033E        CLRQ    -(SP)                                   ;
                                               7E  D4 00340        CLRL    -(SP)                                   ;
                                         C4    AD  9F 00342        PUSHAB  TERM_CHAR                               ;
                                               7E  7C 00345        CLRQ    -(SP)                                   ;
                                      0000'    CF  9F 00347        PUSHAB  AED_W_IOSB                              ;
                                               27  DD 0034B        PUSHL   #39                                     ;
                                 7E   0000'    CF  3C 0034D        MOVZWL  AED_W_TERMOUT, -(SP)                    ;
                                               7E  D4 00352        CLRL    -(SP)                                   ;
                      00000000G  00            0C  FB 00354        CALLS   #12, SYS$QIOW                           ;
                          0000'  CF            50  D0 0035B        MOVL    R0, AED_L_STATUS                        ;
                                 4B   0000'    CF  E9 00360        BLBC    AED_L_STATUS, 10$                       ; 0786
                          0000'  CF   0000'    CF  3C 00365        MOVZWL  AED_W_IOSB, AED_L_STATUS                ;
                                 3F   0000'    CF  E9 0036C        BLBC    AED_L_STATUS, 10$                       ; 0787
                  45      0000'  CF            04  E1 00371        BBC     #4, AED_L_FLAGS, 12$                    ; 0793
                             C9  AD            02  8A 00377        BICB2   #2, TERM_CHAR+5                         ; 0796
                                               7E  7C 0037B        CLRQ    -(SP)                                   ; 0800
                                               7E  7C 0037D        CLRQ    -(SP)                                   ;
                                               7E  D4 0037F        CLRL    -(SP)                                   ;
                                         C4    AD  9F 00381        PUSHAB  TERM_CHAR                               ;
                                               7E  7C 00384        CLRQ    -(SP)                                   ;
                                      0000'    CF  9F 00386        PUSHAB  AED_W_IOSB                              ;
                                               23  DD 0038A        PUSHL   #35                                     ;
                                 7E   0000'    CF  3C 0038C        MOVZWL  AED_W_TERMOUT, -(SP)                    ;
                                               7E  D4 00391        CLRL    -(SP)                                   ;
                      00000000G  00            0C  FB 00393        CALLS   #12, SYS$QIOW                           ;
                          0000'  CF            50  D0 0039A        MOVL    R0, AED_L_STATUS                        ;
                                 0C   0000'    CF  E9 0039F        BLBC    AED_L_STATUS, 10$                       ; 0801
                          0000'  CF   0000'    CF  3C 003A4        MOVZWL  AED_W_IOSB, AED_L_STATUS                ;
                                 0C   0000'    CF  E8 003AB        BLBS    AED_L_STATUS, 12$                       ; 0802
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                03     0000'  CF          03 E0 003B0 10$:   BBS     #3, AED_L_FLAGS, 11$                    ; 0805
                                        0826 31 003B6         BRW     95$
                                        080D 31 003B9 11$:    BRW     94$
                                          7E 7C 003BC 12$:    CLRQ    -(SP)                                   ; 0812
                                          7E 7C 003BE         CLRQ    -(SP)
                                          7E D4 003C0         CLRL    -(SP)
                              0000V     CF 9F 003C2         PUSHAB  AED_CTRLCAST
                                          7E 7C 003C6         CLRQ    -(SP)
                              0000'     CF 9F 003C8         PUSHAB  AED_W_IOSB
                                    7E  0123  8F 3C 003CC         MOVZWL  #291, -(SP)
                                    7E  0000' CF 3C 003D1         MOVZWL  AED_W_TERMIN, -(SP)
                                          7E D4 003D6         CLRL    -(SP)
                00000000G     00          0C FB 003D8         CALLS   #12, SYS$QIOW
                    0000'     CF          50 D0 003DF         MOVL    R0, AED_L_STATUS
                              0C  0000' CF E9 003E4         BLBC    AED_L_STATUS, 13$                       ; 0813
                    0000'     CF  0000' CF 3C 003E9         MOVZWL  AED_W_IOSB, AED_L_STATUS
                              33  0000' CF E8 003F0         BLBS    AED_L_STATUS, 17$                       ; 0814
                16    0000'     CF          03 E1 003F5 13$:   BBC     #3, AED_L_FLAGS, 15$                    ; 0817
                                          01 DD 003FB 14$:   PUSHL   #1
                                          15 DD 003FD         PUSHL   #21
                00000000G     00          02 FB 003FF         CALLS   #2, SCR$ERASE_PAGE
                                          01 DD 00406         PUSHL   #1
                                          15 DD 00408         PUSHL   #21
                00000000G     00          02 FB 0040A         CALLS   #2, SCR$SET_CURSOR
                              0000'     CF DD 00411 15$:   PUSHL   AED_L_STATUS
                00000000G     00          01 FB 00415         CALLS   #1, LIB$SIGNAL
                03     0000'     CF          03 E0 0041C         BBS     #3, AED_L_FLAGS, 16$
                                        07DC 31 00422         BRW     97$
                                        07C8 31 00425 16$:    BRW     96$
                                          01 DD 00428 17$:    PUSHL   #1                                      ; 0820
                                          01 DD 0042A         PUSHL   #1
                00000000G     00          02 FB 0042C         CALLS   #2, SCR$ERASE_PAGE
                                          14 DD 00433         PUSHL   #20                                     ; 0821
                                          01 DD 00435         PUSHL   #1
                00000000G     00          02 FB 00437         CALLS   #2, SCR$SET_SCROLL
                                    06  0000' CF E8 0043E         BLBS    AED_L_FLAGS, 18$                        ; 0822
                          0F    0000'     CF 01 E1 00443         BBC     #1, AED_L_FLAGS, 19$
                          09    0000'     CF 06 E0 00449 18$:    BBS     #6, AED_L_FLAGS+2, 19$                  ; 0823
                              0000'     CF 9F 0044F         PUSHAB  P.AAG                                   ; 0824
                                0000V   CF 01 FB 00453         CALLS   #1, AED_PUTOUTPUT
                              0000'     CF 9F 00458 19$:    PUSHAB  AED_Q_OBJNAM                            ; 0829
                              0000'     CF 9F 0045C         PUSHAB  P.AAI
                00000000G     00          02 FB 00460         CALLS   #2, CLI$GET_VALUE
                                    F8    AD 9F 00467         PUSHAB  VERB_DESC                               ; 0834
                              0000'     CF 9F 0046A         PUSHAB  P.AAK
                00000000G     00          02 FB 0046E         CALLS   #2, CLI$GET_VALUE
                                    50  F8    AD 3C 00475         MOVZWL  VERB_DESC, R0                           ; 0836
                                    04          50 B1 00479         CMPW    R0, #4
                                          03 1B 0047C         BLEQU   20$
                                    50          04 D0 0047E         MOVL    #4, R0
          50    00        FC    BD    F8    AD 2D 00481 20$:    CMPC5   VERB_DESC, @VERB_DESC+4, #0, R0, P.AAM  ; 0835
                              0000'     CF          00488
                                          05 12 0048B         BNEQ    21$
                                0000'     CF 01 D0 0048D         MOVL    #1, AED_L_OBJTYP                        ; 0838
                                    50  F8    AD 3C 00492 21$:    MOVZWL  VERB_DESC, R0                           ; 0841
                                    03          50 B1 00496         CMPW    R0, #3
                                          03 1B 00499         BLEQU   22$
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                                 50      03  D0 0049B        MOVL    #3, R0                                   :
 50          00          FC      BD  F8  AD  2D 0049E 22$:   CMPC5   VERB_DESC, @VERB_DESC+4, #0, R0, P.AAN   : 0840
                                   0000'  CF    004A5                                                         :
                                         03  13 004A8        BEQL    23$                                      :
                                   0092  31     004AA        BRW     31$                                      :
                                     F0  AD  9F 004AD 23$:   PUSHAB  CMD_DESC                                 : 0845
                                   0000' CF  9F 004B0        PUSHAB  P.AAO                                    :
                  00000000G  00          02  FB 004B4        CALLS   #2, CLI$GET_VALUE                        :
                             54      F0  AD  3C 004BB        MOVZWL  CMD_DESC, R4                             : 0846
                             50          54  D0 004BF        MOVL    R4, R0                                   : 0847
                             04          50  B1 004C2        CMPW    R0, #4                                   :
                                         03  1B 004C5        BLEQU   24$                                      :
                             50          04  D0 004C7        MOVL    #4, R0                                   :
 50          00          F4      BD      54  2D 004CA 24$:   CMPC5   R4, @CMD_DESC+4, #0, R0, P.AAQ           : 0846
                                   0000' CF     004D0                                                         :
                                         0A  12 004D3        BNEQ    25$                                      :
                  0000'      CF          04  88 004D5        BISB2   #4, AED_L_FLAGS+3                        : 0851
                  0000'      CF          01  D0 004DA        MOVL    #1, AED_L_OBJTYP                         : 0852
                             50          54  D0 004DF 25$:   MOVL    R4, R0                                   : 0856
                             09          50  B1 004E2        CMPW    R0, #9                                   :
                                         03  1B 004E5        BLEQU   26$                                      :
                             50          09  D0 004E7        MOVL    #9, R0                                   :
 50          00          F4      BD      54  2D 004EA 26$:   CMPC5   R4, @CMD_DESC+4, #0, R0, P.AAR           : 0855
                                   0000' CF     004F0                                                         :
                                         0A  12 004F3        BNEQ    27$                                      :
                  0000'      CF          08  88 004F5        BISB2   #8, AED_L_FLAGS+3                        : 0860
                  0000'      CF          01  D0 004FA        MOVL    #1, AED_L_OBJTYP                         : 0861
                             50          54  D0 004FF 27$:   MOVL    R4, R0                                   : 0865
                             06          50  B1 00502        CMPW    R0, #6                                   :
                                         03  1B 00505        BLEQU   28$                                      :
                             50          06  D0 00507        MOVL    #6, R0                                   :
 50          00          F4      BD      54  2D 0050A 28$:   CMPC5   R4, @CMD_DESC+4, #0, R0, P.AAS           : 0864
                                   0000' CF     00510                                                         :
                                         0A  12 00513        BNEQ    29$                                      :
                  0000'      CF          02  88 00515        BISB2   #2, AED_L_FLAGS+3                        : 0869
                  0000'      CF          02  D0 0051A        MOVL    #2, AED_L_OBJTYP                         : 0870
                             50          54  D0 0051F 29$:   MOVL    R4, R0                                   : 0874
                             03          50  B1 00522        CMPW    R0, #3                                   :
                                         03  1B 00525        BLEQU   30$                                      :
                             50          03  D0 00527        MOVL    #3, R0                                   :
 50          00          F4      BD      54  2D 0052A 30$:   CMPC5   R4, @CMD_DESC+4, #0, R0, P.AAT           : 0873
                                   0000' CF     00530                                                         :
                                         0A  12 00533        BNEQ    31$                                      :
                  0000'      CF          10  88 00535        BISB2   #16, AED_L_FLAGS+3                       : 0878
                  0000'      CF          01  D0 0053A        MOVL    #1, AED_L_OBJTYP                         : 0879
                                   0000' CF  9F 0053F 31$:   PUSHAB  P.AAU                                    : 0885
                  00000000G  00          01  FB 00543        CALLS   #1, CLI$PRESENT                          :
                             05          50  E9 0054A        BLBC    R0, 32$                                  :
                  0000'      CF          01  D0 0054D        MOVL    #1, AED_L_OBJTYP                         :
                                   0000' CF  9F 00552 32$:   PUSHAB  P.AAW                                    : 0886
                  00000000G  00          01  FB 00556        CALLS   #1, CLI$PRESENT                          :
                             05          50  E9 0055D        BLBC    R0, 33$                                  :
                  0000'      CF          02  D0 00560        MOVL    #2, AED_L_OBJTYP                         :
                                   0000' CF  9F 00565 33$:   PUSHAB  P.AAY                                    : 0887
                  00000000G  00          01  FB 00569        CALLS   #1, CLI$PRESENT                          :
                             05          50  E9 00570        BLBC    R0, 34$                                  :
                  0000'      CF          03  D0 00573        MOVL    #3, AED_L_OBJTYP                         :
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                                                0000'  CF   9F 00578 34$:    PUSHAB  P.ABA                           ; 0888
                                00000000G  00           01   FB 0057C        CALLS   #1, CLI$PRESENT                 ;
                                           05           50   E9 00583        BLBC    R0, 35$                         ;
                                    0000'  CF           04   D0 00586        MOVL    #4, AED_L_OBJTYP                ;
                                                0000'  CF   9F 0058B 35$:    PUSHAB  P.ABC                           ; 0889
                                00000000G  00           01   FB 0058F        CALLS   #1, CLI$PRESENT                 ;
                                           05           50   E9 00596        BLBC    R0, 36$                         ;
                                    0000'  CF           05   D0 00599        MOVL    #5, AED_L_OBJTYP                ;
                                                0000'  CF   9F 0059E 36$:    PUSHAB  P.ABE                           ; 0890
                                00000000G  00           01   FB 005A2        CALLS   #1, CLI$PRESENT                 ;
                                           05           50   E9 005A9        BLBC    R0, 37$                         ;
                                    0000'  CF           06   D0 005AC        MOVL    #6, AED_L_OBJTYP                ;
                                                0000'  CF   9F 005B1 37$:    PUSHAB  P.ABG                           ; 0891
                                00000000G  00           01   FB 005B5        CALLS   #1, CLI$PRESENT                 ;
                                           05           50   E9 005BC        BLBC    R0, 38$                         ;
                                    0000'  CF           07   D0 005BF        MOVL    #7, AED_L_OBJTYP                ;
                                                0000'  CF   9F 005C4 38$:    PUSHAB  P.ABI                           ; 0895
                                00000000G  00           01   FB 005C8        CALLS   #1, CLI$PRESENT                 ;
0000'  CF              01                   00           50   F0 005CF        INSV    R0, #0, #1, AED_B_OPTIONS       ;
                                                        1E   50   E9 005D6        BLBC    R0, 39$                         ;
                                                     E8      AD   9F 005D9        PUSHAB  JOURNAL_DESC                    ; 0898
                                                0000'  CF   9F 005DC        PUSHAB  P.ABK                           ;
                                00000000G  00           02   FB 005E0        CALLS   #2, CLI$GET_VALUE               ;
                                    0000'  CF   0000'  CF   9E 005E7        MOVAB   JOURNAL_BUFFER, JOURNAL_RAB+40  ; 0899
                                    0000'  CF           0A   B0 005EE        MOVW    #10, JOURNAL_RAB+34             ; 0900
                                                0000'  CF   D4 005F3        CLRL    JOURNAL_INDEX                   ; 0901
                                                0000'  CF   9F 005F7 39$:    PUSHAB  P.ABM                           ; 0904
                                00000000G  00           01   FB 005FB        CALLS   #1, CLI$PRESENT                 ;
0000'  CF              01                   01           50   F0 00602        INSV    R0, #1, #1, AED_B_OPTIONS       ;
                                                        1E   50   E9 00609        BLBC    R0, 40$                         ;
                                                     E0      AD   9F 0060C        PUSHAB  RECOVER_DESC                    ; 0907
                                                0000'  CF   9F 0060F        PUSHAB  P.ABO                           ;
                                00000000G  00           02   FB 00613        CALLS   #2, CLI$GET_VALUE               ;
                                    0000'  CF   0000'  CF   9E 0061A        MOVAB   RECOVER_BUFFER, RECOVER_RAB+36  ; 0908
                                    0000'  CF           0A   D0 00621        MOVL    #10, RECOVER_RAB+32             ; 0909
                                                0000'  CF   D4 00626        CLRL    RECOVER_INDEX                   ; 0911
                                                0000'  CF   9F 0062A 40$:    PUSHAB  P.ABQ                           ; 0914
                                00000000G  00           01   FB 0062E        CALLS   #1, CLI$PRESENT                 ;
0000'  CF              01                   02           50   F0 00635        INSV    R0, #2, #1, AED_B_OPTIONS       ;
                                                0000'  CF   9F 0063C        PUSHAB  P.ABS                           ; 0915
                                00000000G  00           01   FB 00640        CALLS   #1, CLI$PRESENT                 ;
0000'  CF              01                   03           50   F0 00647        INSV    R0, #3, #1, AED_B_OPTIONS       ;
                                                0000'  CF   9F 0064E        PUSHAB  P.ABU                           ; 0917
                                00000000G  00           01   FB 00652        CALLS   #1, CLI$PRESENT                 ;
0000'  CF              01                   07           50   F0 00659        INSV    R0, #7, #1, AED_L_FLAGS+1       ;
                                    F91C   CD  000B0004. 8F   D0 00660        MOVL    #720900, ATR_ARGLIST            ; 0923
                                    F920   CD      0000' CF   9E 00669        MOVAB   AED_L_LOCKINFO, ATR_ARGLIST+4   ; 0924
                                                        7E   7C 00670        CLRQ    -(SP)                           ; 0928
                                                        7E   D4 00672        CLRL    -(SP)                           ;
                                                     F91C.  CD   9F 00674        PUSHAB  ATR_ARGLIST                     ;
                                                0000'  CF   9F 00678        PUSHAB  AED_Q_OBJNAM                    ;
                                                0000'  CF   9F 0067C        PUSHAB  AED_L_OBJTYP                    ;
                                                        7E  0000'  CF   3C 00680        MOVZWL  AED_W_OBJCHAN, -(SP)            ;
                                00000000G  00           07   FB 00685        CALLS   #7, SYS$CHANGE_ACL              ;
                                    0000'  CF           50   D0 0068C        MOVL    R0, AED_L_STATUS                ;
                                                        77  0000'  CF   E8 00691        BLBS    AED_L_STATUS, 45$               ; 0929
                                000009B8   8F      0000'  CF   D1 00696        CMPL    AED_L_STATUS, #2488             ; 0932
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                                   60  12 0069F          BNEQ    43$                                              ;
               16    0000'  CF     03  E1 006A1          BBC     #3, AED_L_FLAGS, 41$                             ; 0933
                                   01  DD 006A7          PUSHL   #1                                               ;
                                   15  DD 006A9          PUSHL   #21                                              ;
               00000000G    00     02  FB 006AB          CALLS   #2, SCR$ERASE_PAGE                               ;
                                   01  DD 006B2          PUSHL   #1                                               ;
                                   15  DD 006B4          PUSHL   #21                                              ;
               00000000G    00     02  FB 006B6          CALLS   #2, SCR$SET_CURSOR                               ;
                      00000000G    8F  DD 006BD  41$:    PUSHL   #AED$_OBJLOCKED                                  ;
               00000000G    00     01  FB 006C3          CALLS   #1, LIB$SIGNAL                                   ;
               11    0000'  CF     03  E1 006CA          BBC     #3, AED_L_FLAGS, 42$                             ;
                      7E    0000'  CF  9A 006D0          MOVZBL  AED_B_COLUMN, -(SP)                              ;
                      7E    0000'  CF  9A 006D5          MOVZBL  AED_B_LINE, -(SP)                                ;
               00000000G    00     02  FB 006DA          CALLS   #2, SCR$SET_CURSOR                               ;
                      00000000*    8F  D5 006E1  42$:    TSTL    #<AED$_OBJLOCKED&7>                              ;
                                   6C  13 006E7          BEQL    48$                                              ;
00000000*  8F   0000'  CF     03   00  ED 006E9          CMPZV   #0, #3, AED_L_WORSTERR, #<AED$_OBJLOCKED&7>      ;
                                   5F  18 006F4          BGEQ    48$                                              ;
               0000'  CF 00000000G 8F  D0 006F6          MOVL    #AED$_OBJLOCKED, AED_L_WORSTERR                  ;
                                   54  11 006FF          BRB     48$                                              ; 0932
               03    0000'  CF     03  E0 00701  43$:    BBS     #3, AED_L_FLAGS, 44$                             ; 0934
                                 FD07  31 00707          BRW     15$                                              ;
                                 FCEE  31 0070A  44$:    BRW     14$                                              ;
         18           00     6E    00  2C 0070D  45$:    MOVC5   #0, (SP), #0, #24, ATR_ARGLIST                   ; 0937
                           F91C    CD     00712                                                                   ;
                      50    0000'  CF  D0 00715          MOVL    AED_Q_OBJNAM+4, R0                               ; 0946
               0000'  CF           50  D0 0071A          MOVL    R0, OBJECT_FAB+44                                ;
                      52    0000'  CF  3C 0071F          MOVZWL  AED_Q_OBJNAM, R2                                 ; 0947
                      01    0000'  CF  D1 00724          CMPL    AED_L_OBJTYP, #1                                 ; 0943
                                   03  13 00729          BEQL    46$                                              ;
                                 00EA  31 0072B          BRW     55$                                              ;
               0000'  CF           52  90 0072E  46$:    MOVB    R2, OBJECT_FAB+52                                ; 0947
                            0000'  CF  9F 00733          PUSHAB  OBJECT_FAB                                       ; 0948
               00000000G    00     01  FB 00737          CALLS   #1, SYS$OPEN                                     ;
                      17           50  E8 0073E          BLBS    R0, 49$                                          ;
                      7E    0000'  CF  7D 00741          MOVQ    OBJECT_FAB+8, -(SP)                              ; 0951
                            0000'  CF  9F 00746          PUSHAB  OBJECT_FAB                                       ;
                        0115109A   8F  DD 0074A          PUSHL   #18157722                                        ;
               0000V  CF           04  FB 00750  47$:    CALLS   #4, AED_FILERROR                                 ;
                                 05CD  31 00755  48$:    BRW     109$                                             ; 0953
               0000'  CF    0000'  CF  9B 00758  49$:    MOVZBW  OBJECT_NAM+3, AED_Q_OBJNAM                       ; 0956
               0000'  CF    0000'  CF  D0 0075F          MOVL    OBJECT_NAM+4, AED_Q_OBJNAM+4                     ; 0957
               0000'  CF    0000'  CF  B0 00766          MOVW    OBJECT_FAB+12, AED_Q_OBJCHAN                     ; 0958
               F91C   CD 000A0200  8F  D0 0076D          MOVL    #655872, ATR_ARGLIST                             ; 0963
               F920   CD       20  AE  9E 00776          MOVAB   FILE_HEADER, ATR_ARGLIST+4                       ; 0964
                                   7E  D4 0077C          CLRL    -(SP)                                            ; 0968
                            F91C   CD  9F 0077E          PUSHAB  ATR_ARGLIST                                      ;
                                   7E  7C 00782          CLRQ    -(SP)                                            ;
                                   7E  7C 00784          CLRQ    -(SP)                                            ;
                                   7E  7C 00786          CLRQ    -(SP)                                            ;
                            0000'  CF  9F 00788          PUSHAB  AED_W_IOSB                                       ;
                                   32  DD 0078C          PUSHL   #50                                              ;
                      7E    0000'  CF  3C 0078E          MOVZWL  AED_W_OBJCHAN, -(SP)                             ;
                                   7E  D4 00793          CLRL    -(SP)                                            ;
               00000000G    00     0C  FB 00795          CALLS   #12, SYS$QIOW                                    ;
               0000'  CF           50  D0 0079C          MOVL    R0, AED_L_STATUS                                 ;
                      0C    0000'  CF  E9 007A1          BLBC    AED_L_STATUS, 50$                                ; 0969
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                        0000'  CF      0000'  CF  3C 007A6          MOVZWL  AED_W_IOSB, AED_L_STATUS                ;
                               4F      0000'  CF  E8 007AD          BLBS    AED_L_STATUS, 54$                       ; 0970
                    16  0000'  CF             03  E1 007B2 50$:     BBC     #3, AED_L_FLAGS, 51$                    ; 0973
                                             01  DD 007B8          PUSHL   #1                                      ;
                                             15  DD 007BA          PUSHL   #21                                     ;
                00000000G   00               02  FB 007BC          CALLS   #2, SCR$ERASE_PAGE                      ;
                                             01  DD 007C3          PUSHL   #1                                      ;
                                             15  DD 007C5          PUSHL   #21                                     ;
                00000000G   00               02  FB 007C7          CALLS   #2, SCR$SET_CURSOR                      ;
                                             7E  D4 007CE 51$:     CLRL    -(SP)                                   ;
                                    0000'  CF  DD 007D0          PUSHL   AED_L_STATUS                            ;
                                    0000'  CF  9F 007D4          PUSHAB  AED_Q_OBJNAM                            ;
                                             01  DD 007D8          PUSHL   #1                                      ;
                                    011510B2    8F  DD 007DA          PUSHL   #18157746                               ;
                00000000G   00               05  FB 007E0          CALLS   #5, LIB$SIGNAL                          ;
                    11  0000'  CF             03  E1 007E7          BBC     #3, AED_L_FLAGS, 53$                    ;
                               7E      0000'  CF  9A 007ED 52$:     MOVZBL  AED_B_COLUMN, -(SP)                     ;
                               7E      0000'  CF  9A 007F2          MOVZBL  AED_B_LINE, -(SP)                       ;
                00000000G   00               02  FB 007F7          CALLS   #2, SCR$SET_CURSOR                      ;
                                         020D  31  007FE 53$:     BRW     72$                                     ;
        50      55  AE              01         05  EF 00801 54$:     EXTZV   #5, #1, FILE_HEADER+53, R0              ; 0976
0000'   CF          01              02         50  F0 00807          INSV    R0, #2, #1, AED_L_FLAGS+2               ;
        18          00              6E         00  2C 0080E          MOVC5   #0, (SP), #0, #24, ATR_ARGLIST          ; 0977
                                    F91C   CD      00813                                                          ;
                                             4E  11  00816          BRB     58$                                     ; 0943
                        0000'  CF            52  90  00818 55$:     MOVB    R2, OBJECT_FAB+52                       ; 0982
                               02      0000'  CF  D1  0081D          CMPL    AED_L_OBJTYP, #2                        ; 0983
                                             10  12  00822          BNEQ    56$                                     ;
                    50              52      0000'  CF  C1  00824          ADDL3   AED_Q_OBJNAM+4, R2, R0                  ; 0984
                               3A      FF    A0  91  0082A          CMPB    -1(R0), #58                             ;
                                             04  12  0082E          BNEQ    56$                                     ;
                                    0000'  CF  97  00830          DECB    OBJECT_FAB+52                           ; 0985
                                    0000'  CF  9F  00834 56$:     PUSHAB  OBJECT_FAB                              ; 0987
            00000000G   00                   01  FB  00838          CALLS   #1, SYS$PARSE                           ;
                               12                50  E8  0083F          BLBS    R0, 57$                                 ;
                               7E      0000'  CF  7D  00842          MOVQ    OBJECT_FAB+8, -(SP)                     ; 0990
                                    0000'  CF  9F  00847          PUSHAB  OBJECT_FAB                              ;
                                00000000G   8F  DD  0084B          PUSHL   #AED$_SYNTAX                            ;
                                         FEFC  31  00851          BRW     47$                                     ;
                        0000'  CF    0000'  CF  90  00854 57$:     MOVB    OBJECT_NAM+11, OBJECT_NAM+3             ; 0994
                        0000'  CF    0000'  CF  D0  0085B          MOVL    OBJECT_NAM+12, OBJECT_NAM+4             ; 0995
                                    0000'  CF  B4  00862          CLRW    AED_W_OBJCHAN                           ; 0996
                48      0000'  CF             01  E1  00866 58$:     BBC     #1, AED_B_OPTIONS, 61$                  ; 1001
                        0000'  CF      E4     AD  D0  0086C          MOVL    RECOVER_DESC+4, RECOVER_FAB+44          ; 1004
                        0000'  CF      E0     AD  90  00872          MOVB    RECOVER_DESC, RECOVER_FAB+52            ; 1005
                                    0000'  CF  9F  00878          PUSHAB  RECOVER_FAB                             ; 1006
            00000000G   00                   01  FB  0087C          CALLS   #1, SYS$OPEN                            ;
                               07                50  E8  00883          BLBS    R0, 59$                                 ;
                               7E      0000'  CF  7D  00886          MOVQ    RECOVER_FAB+8, -(SP)                    ; 1009
                                             13  11  0088B          BRB     60$                                     ;
                                    0000'  CF  9F  0088D 59$:     PUSHAB  RECOVER_RAB                             ; 1013
            00000000G   00                   01  FB  00891          CALLS   #1, SYS$CONNECT                         ;
                               19                50  E8  00898          BLBS    R0, 61$                                 ;
                               7E      0000'  CF  7D  0089B          MOVQ    RECOVER_RAB+8, -(SP)                    ; 1016
                                    0000'  CF  9F  008A0 60$:     PUSHAB  RECOVER_FAB                             ;
                                00000000G   8F  DD  008A4          PUSHL   #AED$_RECOPENIN                         ;
                        0000V   CF           04  FB  008AA          CALLS   #4, AED_FILERROR                        ;
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                     0000'  CF                02  8A 008AF         BICB2   #2, AED_B_OPTIONS                          ; 1018
                            48       0000'    CF  E9 008B4 61$:    BLBC    AED_B_OPTIONS, 64$                         ; 1022
                     0000'  CF          EC    AD  D0 008B9         MOVL    JOURNAL_DESC+4, JOURNAL_FAB+44             ; 1025
                     0000'  CF          E8    AD  90 008BF         MOVB    JOURNAL_DESC, JOURNAL_FAB+52               ; 1026
                                     0000'    CF  9F 008C5         PUSHAB  JOURNAL_FAB                                ; 1027
                 00000000G  00                01  FB 008C9         CALLS   #1, SYS$CREATE                             ;
                            07                50  E8 008D0         BLBS    R0, 62$                                    ;
                            7E       0000'    CF  7D 008D3         MOVQ    JOURNAL_FAB+8, -(SP)                       ; 1030
                                              13  11 008D8         BRB     63$                                        ;
                                     0000'    CF  9F 008DA 62$:    PUSHAB  JOURNAL_RAB                                ; 1034
                 00000000G  00                01  FB 008DE         CALLS   #1, SYS$CONNECT                            ;
                            19                50  E8 008E5         BLBS    R0, 64$                                    ;
                            7E       0000'    CF  7D 008E8         MOVQ    JOURNAL_RAB+8, -(SP)                       ; 1037
                                     0000'    CF  9F 008ED 63$:    PUSHAB  JOURNAL_FAB                                ;
                                 00000000G    8F  DD 008F1         PUSHL   #AED$_JOUOPENOUT                           ;
                     0000V  CF                04  FB 008F7         CALLS   #4, AED_FILERROR                           ;
                     0000'  CF                01  8A 008FC         BICB2   #1, AED_B_OPTIONS                          ; 1039
                     0000G  CF                00  FB 00901 64$:    CALLS   #0, AED_GETKEYINI                          ; 1048
                     0000'  CF                50  D0 00906         MOVL    R0, AED_L_STATUS                           ;
                            0B       0000'    CF  E8 0090B         BLBS    AED_L_STATUS, 65$                          ; 1049
              50     0000'  CF 10000000       8F  C9 00910         BISL3   #268435456, AED_L_STATUS, R0               ;
                                                  04 0091A         RET                                                ;
                     0000'  CF       0000'    CF  9E 0091B 65$:    MOVAB   AED_Q_LINETABLE, AED_Q_LINETABLE           ; 1054
                     0000'  CF       0000'    CF  9E 00922         MOVAB   AED_Q_LINETABLE, AED_Q_LINETABLE+4         ; 1055
  0040    8F         00               6E      00  2C 00929         MOVC5   #0, (SP), #0, #64, ACL_FIB                 ; 1057
                                     F93C     CD     00930                                                            ;
          08         00               6E      00  2C 00933         MOVC5   #0, (SP), #0, #8, ACL_FIB_DESC             ; 1058
                                     F934     CD     00938                                                            ;
                      F934  CD          40    8F  9B 0093B         MOVZBW  #64, ACL_FIB_DESC                          ; 1059
                      F938  CD        F93C    CD  9E 00941         MOVAB   ACL_FIB, ACL_FIB_DESC+4                    ; 1060
                                     0000'    CF  9F 00948         PUSHAB  AED_A_ACLBUFFER                            ; 1064
                        04  AE        0200    8F  3C 0094C         MOVZWL  #512, 4(SP)                                ;
                                        04    AE  9F 00952         PUSHAB  4(SP)                                      ;
                 00000000G  00                02  FB 00955         CALLS   #2, LIB$GET_VM                             ;
                            56                50  D0 0095C         MOVL    R0, VM_STATUS                              ;
                            0A                56  E9 0095F         BLBC    VM_STATUS, 66$                             ;
  0200    8F         00               6E      00  2C 00962         MOVC5   #0, (SP), #0, #512, @AED_A_ACLBUFFER       ;
                                     0000'    DF     00969                                                            ;
                     0000'  CF                56  D0 0096C 66$:    MOVL    VM_STATUS, AED_L_STATUS                    ;
                            03       0000'    CF  E8 00971         BLBS    AED_L_STATUS, 67$                          ; 1065
                                          FA37    31 00976         BRW     10$                                        ;
                                        14    AE  D4 00979 67$:    CLRL    ACL_CONTEXT                                ; 1074
                      F91C  CD 00070200       8F  D0 0097C         MOVL    #459264, ATR_ARGLIST                       ; 1076
                      F920  CD       0000'    CF  D0 00985         MOVL    AED_A_ACLBUFFER, ATR_ARGLIST+4             ; 1077
  0200    8F         00               6E      00  2C 0098C 68$:    MOVC5   #0, (SP), #0, #512, @AED_A_ACLBUFFER       ; 1081
                                     0000'    DF     00993                                                            ;
                                        14    AE  9F 00996         PUSHAB  ACL_CONTEXT                                ; 1086
                                              7E  7C 00999         CLRQ    -(SP)                                      ;
                                      F91C    CD  9F 0099B         PUSHAB  ATR_ARGLIST                                ;
                                     0000'    CF  9F 0099F         PUSHAB  AED_Q_OBJNAM                               ;
                                     0000'    CF  9F 009A3         PUSHAB  AED_L_OBJTYP                               ;
                            7E       0000'    CF  3C 009A7         MOVZWL  AED_W_OBJCHAN, -(SP)                       ;
                 00000000G  00                07  FB 009AC         CALLS   #7, SYS$CHANGE_ACL                         ;
                     0000'  CF                50  D0 009B3         MOVL    R0, AED_L_STATUS                           ;
                            68                50  E8 009B8         BLBS    R0, 74$                                    ; 1087
                 000009D0   8F                50  D1 009BB         CMPL    R0, #2512                                  ; 1090
                                              07  13 009C2         BEQL    69$                                        ;
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                 000009E0   8F                50  D1 009C4        CMPL    R0, #2528                              ;
                                              03  12 009CB 69$:   BNEQ    70$                                    ;
                                            02C5  31 009CD        BRW     105$                                   ;
             16      0000'  CF                03  E1 009D0 70$:   BBC     #3, AED_L_FLAGS, 71$                   ; 1091
                                              01  DD 009D6        PUSHL   #1                                     ;
                                              15  DD 009D8        PUSHL   #21                                    ;
                 00000000G  00                02  FB 009DA        CALLS   #2, SCR$ERASE_PAGE                     ;
                                              01  DD 009E1        PUSHL   #1                                     ;
                                              15  DD 009E3        PUSHL   #21                                    ;
                 00000000G  00                02  FB 009E5        CALLS   #2, SCR$SET_CURSOR                     ;
                                              7E  D4 009EC 71$:   CLRL    -(SP)                                  ;
                                     0000'    CF  DD 009EE        PUSHL   AED_L_STATUS                           ;
                                     0000'    CF  9F 009F2        PUSHAB  AED_Q_OBJNAM                           ;
                                              01  DD 009F6        PUSHL   #1                                     ;
                                 011510B2     8F  DD 009F8        PUSHL   #18157746                              ;
                 00000000G  00                05  FB 009FE        CALLS   #5, LIB$SIGNAL                         ;
             03      0000'  CF                03  E1 00A05        BBC     #3, AED_L_FLAGS, 72$                   ;
                                            FDDF  31 00A0B        BRW     52$                                    ;
    02      0000'  CF               03        00  ED 00A0E 72$:   CMPZV   #0, #3, AED_L_WORSTERR, #2             ;
                                              09  18 00A15        BGEQ    73$                                    ;
                     0000'  CF 011510B2       8F  D0 00A17        MOVL    #18157746, AED_L_WORSTERR              ;
                                            0302  31 00A20 73$:   BRW     109$                                   ; 1092
                            59       0000'    CF  D0 00A23 74$:   MOVL    AED_A_ACLBUFFER, ACE_POINTER           ; 1094
             50      0000'  CF 00000200       8F  C1 00A28 75$:   ADDL3   #512, AED_A_ACLBUFFER, R0              ; 1095
                            50                59  D1 00A32        CMPL    ACE_POINTER, R0                        ;
                                              03  1F 00A35        BLSSU   77$                                    ;
                                            FF52  31 00A37 76$:   BRW     68$                                    ;
                                              69  95 00A3A 77$:   TSTB    (ACE_POINTER)                          ; 1098
                                              F9  13 00A3C        BEQL    76$                                    ;
                                       18     AE  9F 00A3E        PUSHAB  ACE_NEWADDR                            ; 1099
                     04     AE                69  9A 00A41        MOVZBL  (ACE_POINTER), 4(SP)                   ;
                                       04     AE  9F 00A45        PUSHAB  4(SP)                                  ;
                 00000000G  00                02  FB 00A48        CALLS   #2, LIB$GET_VM                         ;
                            58                50  D0 00A4F        MOVL    R0, VM_STATUS                          ;
                            0A                58  E9 00A52        BLBC    VM_STATUS, 78$                         ;
                            50                69  9A 00A55        MOVZBL  (ACE_POINTER), R0                      ;
    50             00       6E                00  2C 00A58        MOVC5   #0, (SP), #0, R0, @ACE_NEWADDR         ;
                                       18     BE     00A5D                                                   ;
                     0000'  CF                58  D0 00A5F 78$:   MOVL    VM_STATUS, AED_L_STATUS                ;
                            03       0000'    CF  E8 00A64        BLBS    AED_L_STATUS, 79$                      ; 1100
                                            F944  31 00A69        BRW     10$                                    ;
                            50                69  9A 00A6C 79$:   MOVZBL  (ACE_POINTER), R0                      ; 1106
          18       BE       69                50  28 00A6F        MOVC3   R0, (ACE_POINTER), @ACE_NEWADDR        ;
                     F918   CD                59  D0 00A74        MOVL    ACE_POINTER, ACE_DESC+4                ; 1107
                     F914   CD                69  9B 00A79        MOVZBW  (ACE_POINTER), ACE_DESC                ; 1108
                     F910   CD       0220     CE  9E 00A7E        MOVAB   ACE_TEXT, ACE_TEXT_DESC+4              ; 1109
                     F90C   CD       0C00     8F  B0 00A85        MOVW    #3072, ACE_TEXT_DESC                   ; 1110
                                              7E  7C 00A8C        CLRQ    -(SP)                                  ; 1116
                                     0000'    CF  9F 00A8E        PUSHAB  P.ABW                                  ;
                                     0000'    CF  9F 00A92        PUSHAB  AED_L_PAGEWIDTH                        ;
                                     F90C     CD  9F 00A96        PUSHAB  ACE_TEXT_DESC                          ;
                                     F90C     CD  9F 00A9A        PUSHAB  ACE_TEXT_DESC                          ;
                                     F914     CD  9F 00A9E        PUSHAB  ACE_DESC                               ;
                 00000000G  00                07  FB 00AA2        CALLS   #7, SYS$FORMAT_ACL                     ;
                     0000'  CF                50  D0 00AA9        MOVL    R0, AED_L_STATUS                       ;
                            56       F90C     CD  3C 00AAE        MOVZWL  ACE_TEXT_DESC, ACE_TEXT_SIZE           ; 1117
                            5A       0220     CE  9E 00AB3        MOVAB   ACE_TEXT, FIRST_CHAR                   ; 1118
```

```
                                     0000'  CF   7C 00AB8        CLRQ    AED_L_FIRSTLINE                             ; 1119
            6A          56                  00   3A 00ABC 80$:   LOCC    #0, ACE_TEXT_SIZE, (FIRST_CHAR)              ; 1120
                                            02   12 00AC0        BNEQ    81$                                          ;
                                            51   D4 00AC2        CLRL    R1                                           ;
            5B                              51   D0 00AC4 81$:   MOVL    R1, LAST_CHAR                                ;
                                            03   14 00AC7        BGTR    82$                                          ;
                                          00C4   31 00AC9        BRW     90$                                          ;
            57          5B                  5A   C3 00ACC 82$:   SUBL3   FIRST_CHAR, LAST_CHAR, SEGMENT_SIZE          ; 1123
                                    1C      AE   9F 00AD0        PUSHAB  NEW_TEXT_LINE                                ; 1125
                        52          14      A7   9E 00AD3        MOVAB   20(R7), R2                                   ;
                  04    AE                  52   D0 00AD7        MOVL    R2, 4(SP)                                    ;
                                    04      AE   9F 00ADB        PUSHAB  4(SP)                                        ;
           00000000G    00                  02   FB 00ADE        CALLS   #2, LIB$GET_VM                               ;
                        58                  50   D0 00AE5        MOVL    R0, VM_STATUS                                ;
                        07                  58   E9 00AE8        BLBC    VM_STATUS, 83$                               ;
 52                     00          6E      00   2C 00AEB        MOVC5   #0, (SP), #0, R2, @NEW_TEXT_LINE             ;
                                    1C      BE      00AF0                                                             ;
               0000'    CF                  58   D0 00AF2 83$:   MOVL    VM_STATUS, AED_L_STATUS                      ;
                        5C       0000'      CF   E8 00AF7        BLBS    AED_L_STATUS, 88$                            ; 1126
       16      0000'    CF                  03   E1 00AFC        BBC     #3, AED_L_FLAGS, 84$                         ; 1129
                                            01   DD 00B02        PUSHL   #1                                           ;
                                            15   DD 00B04        PUSHL   #21                                          ;
           00000000G    00                  02   FB 00B06        CALLS   #2, SCR$ERASE_PAGE                           ;
                                            01   DD 00B0D        PUSHL   #1                                           ;
                                            15   DD 00B0F        PUSHL   #21                                          ;
           00000000G    00                  02   FB 00B11        CALLS   #2, SCR$SET_CURSOR                           ;
                                 0000'      CF   DD 00B18 84$:   PUSHL   AED_L_STATUS                                 ;
           00000000G    00                  01   FB 00B1C        CALLS   #1, LIB$SIGNAL                               ;
       11      0000'    CF                  03   E1 00B23        BBC     #3, AED_L_FLAGS, 85$                         ;
                        7E       0000'      CF   9A 00B29        MOVZBL  AED_B_COLUMN, -(SP)                          ;
                        7E       0000'      CF   9A 00B2E        MOVZBL  AED_B_LINE, -(SP)                            ;
           00000000G    00                  02   FB 00B33        CALLS   #2, SCR$SET_CURSOR                           ;
                        50       0000'      CF   D0 00B3A 85$:   MOVL    AED_L_STATUS, R0                             ;
                        07                  50   93 00B3F        BITB    R0, #7                                       ;
                                            03   12 00B42        BNEQ    87$                                          ;
                                          01DE   31 00B44 86$:   BRW     109$                                         ;
 51                     50          03      00   EF 00B47 87$:   EXTZV   #0, #3, R0, R1                               ;
 51         0000'       CF          03      00   ED 00B4C        CMPZV   #0, #3, AED_L_WORSTERR, R1                   ;
                                            EF   18 00B53        BGEQ    86$                                          ;
                                          00C1   31 00B55        BRW     98$                                          ;
                        58          1C      AE   D0 00B58 88$:   MOVL    NEW_TEXT_LINE, R8                            ; 1132
                  08    A8                  57   B0 00B5C        MOVW    SEGMENT_SIZE, 8(R8)                          ;
                  0C    A8          18      AE   D0 00B60        MOVL    ACE_NEWADDR, 12(R8)                          ; 1133
            14    A8    6A                  56   28 00B65        MOVC3   ACE_TEXT_SIZE, (FIRST_CHAR), 20(R8)          ; 1134
               0000'    DF                  68   0E 00B6A        INSQUE  (R8), @AED_Q_LINETABLE+4                     ; 1135
                                 0000'      CF   D5 00B6F        TSTL    AED_L_FIRSTLINE                              ; 1136
                                            06   12 00B73        BNEQ    89$                                          ;
               0000'    CF          1C      AE   D0 00B75        MOVL    NEW_TEXT_LINE, AED_L_FIRSTLINE               ;
               0000'    CF          1C      AE   D0 00B7B 89$:   MOVL    NEW_TEXT_LINE, AED_L_LASTLINE                ; 1137
                        5A          01      AB   9E 00B81        MOVAB   1(R11), FIRST_CHAR                           ; 1138
            52          56                  57   C3 00B85        SUBL3   SEGMENT_SIZE, ACE_TEXT_SIZE, R2              ; 1139
                        56          FF      A2   9E 00B89        MOVAB   -1(R2), ACE_TEXT_SIZE                        ;
                                          FF2C   31 00B8D        BRW     80$                                          ; 1120
                                            56   D5 00B90 90$:   TSTL    ACE_TEXT_SIZE                                ; 1141
                                            03   14 00B92        BGTR    91$                                          ;
                                          00B3   31 00B94        BRW     102$                                         ;
                                    1C      AE   9F 00B97 91$:   PUSHAB  NEW_TEXT_LINE                                ; 1145
```

```
                     52        14   A6  9E 00B9A          MOVAB   20(R6), R2                                  ;
              04     AE             52  D0 00B9E          MOVL    R2, 4(SP)                                   ;
                               04   AE  9F 00BA2          PUSHAB  4(SP)                                       ;
       00000000G     00             02  FB 00BA5          CALLS   #2, LIB$GET_VM                              ;
                     58             50  D0 00BAC          MOVL    R0, VM_STATUS                               ;
                     07             58  E9 00BAF          BLBC    VM_STATUS, 92$                              ;
  52         00      6E             00  2C 00BB2          MOVC5   #0, (SP), #0, R2, @NEW_TEXT_LINE            ;
                               1C   BE     00BB7                                                              ;
           0000'     CF             58  D0 00BB9 92$:     MOVL    VM_STATUS, AED_L_STATUS                     ;
                     5E     0000'   CF  E8 00BBE          BLBS    AED_L_STATUS, 100$                          ; 1146
         16  0000'   CF             03  E1 00BC3 93$:     BBC     #3, AED_L_FLAGS, 95$                        ; 1149
                                    01  DD 00BC9 94$:     PUSHL   #1                                          ;
                                    15  DD 00BCB          PUSHL   #21                                         ;
       00000000G     00             02  FB 00BCD          CALLS   #2, SCR$ERASE_PAGE                          ;
                                    01  DD 00BD4          PUSHL   #1                                          ;
                                    15  DD 00BD6          PUSHL   #21                                         ;
       00000000G     00             02  FB 00BD8          CALLS   #2, SCR$SET_CURSOR                          ;
                            0000'   CF  DD 00BDF 95$:     PUSHL   AED_L_STATUS                                ;
       00000000G     00             01  FB 00BE3          CALLS   #1, LIB$SIGNAL                              ;
         11  0000'   CF             03  E1 00BEA          BBC     #3, AED_L_FLAGS, 97$                        ;
                     7E     0000'   CF  9A 00BF0 96$:     MOVZBL  AED_B_COLUMN, -(SP)                         ;
                     7E     0000'   CF  9A 00BF5          MOVZBL  AED_B_LINE, -(SP)                           ;
       00000000G     00             02  FB 00BFA          CALLS   #2, SCR$SET_CURSOR                          ;
                     50     0000'   CF  D0 00C01 97$:     MOVL    AED_L_STATUS, R0                            ;
                     07             50  93 00C06          BITB    R0, #7                                      ;
                     13             13  13 00C09          BEQL    99$                                         ;
  51         50      03             00  EF 00C0B          EXTZV   #0, #3, R0, R1                              ;
  51   0000' CF      03             00  ED 00C10          CMPZV   #0, #3, AED_L_WORSTERR, R1                  ;
                     05             05  18 00C17          BGEQ    99$                                         ;
           0000'     CF             50  D0 00C19 98$:     MOVL    R0, AED_L_WORSTERR                          ;
                                  0104  31 00C1E 99$:     BRW     109$                                        ; 1150
                     58        1C   AE  D0 00C21 100$:    MOVL    NEW_TEXT_LINE, R8                           ; 1152
              08     A8             56  B0 00C25          MOVW    ACE_TEXT_SIZE, 8(R8)                        ;
              0C     A8        18   AE  D0 00C29          MOVL    ACE_NEWADDR, 12(R8)                         ; 1153
         14   A8     6A             56  28 00C2E          MOVC3   ACE_TEXT_SIZE, (FIRST_CHAR), 20(R8)         ; 1154
           0000'     DF             68  0E 00C33          INSQUE  (R8), @AED_Q_LINETABLE+4                    ; 1155
                            0000'   CF  D5 00C38          TSTL    AED_L_FIRSTLINE                             ; 1156
                                    06  12 00C3C          BNEQ    101$                                        ;
           0000'     CF        1C   AE  D0 00C3E          MOVL    NEW_TEXT_LINE, AED_L_FIRSTLINE              ;
           0000'     CF        1C   AE  D0 00C44 101$:    MOVL    NEW_TEXT_LINE, AED_L_LASTLINE               ; 1157
                     51     0000'   CF  D0 00C4A 102$:    MOVL    AED_L_FIRSTLINE, R1                         ; 1159
              0A     A1             01  88 00C4F          BISB2   #1, 10(R1)                                  ;
         27   03     A9             02  E0 00C53          BBS     #2, 3(ACE_POINTER), 103$                    ; 1160
                     50        01   A9  9A 00C58          MOVZBL  1(ACE_POINTER), R0                          ; 1161
                     01             50  91 00C5C          CMPB    R0, #1                                      ;
                                    22  13 00C5F          BEQL    104$                                        ;
                     02             50  91 00C61          CMPB    R0, #2                                      ; 1162
                                    1D  13 00C64          BEQL    104$                                        ;
                     03             50  91 00C66          CMPB    R0, #3                                      ; 1163
                                    18  13 00C69          BEQL    104$                                        ;
                     04             50  91 00C6B          CMPB    R0, #4                                      ; 1164
                                    13  13 00C6E          BEQL    104$                                        ;
                     05             50  91 00C70          CMPB    R0, #5                                      ; 1165
                                    0E  13 00C73          BEQL    104$                                        ;
                     06             50  91 00C75          CMPB    R0, #6                                      ; 1166
                                    09  13 00C78          BEQL    104$                                        ;
                     09             50  91 00C7A          CMPB    R0, #9                                      ; 1167
```

```
                                          04  13 00C7D        BEQL    104$                                   ;
              0A  A1                      10  88 00C7F 103$:  BISB2   #16, 10(R1)                            ; 1168
                  50        0000'         CF  D0 00C83 104$:  MOVL    AED_L_LASTLINE, R0                     ; 1169
              0A  A0                      02  88 00C88        BISB2   #2, 10(R0)                             ;
                  50                      69  9A 00C8C        MOVZBL  (ACE_POINTER), R0                      ; 1170
                  59                      50  C0 00C8F        ADDL2   R0, ACE_POINTER                        ;
                                        FD93  31 00C92        BRW     75$                                    ; 1095
                            0000'         CF  9F 00C95 105$:  PUSHAB  AED_A_ACLBUFFER                        ; 1173
              04  AE        0200          8F  3C 00C99        MOVZWL  #512, 4(SP)                            ;
                              04          AE  9F 00C9F        PUSHAB  4(SP)                                  ;
       00000000G  00                      02  FB 00CA2        CALLS   #2, LIB$FREE_VM                        ;
                  50        0000'         CF  9E 00CA9        MOVAB   AED_Q_LINETABLE, R0                    ; 1177
                  50        0000'         CF  D1 00CAE        CMPL    AED_Q_LINETABLE, R0                    ;
                                          61  13 00CB3        BEQL    108$                                   ;
      5B        0000'  CF                 03  E1 00CB5        BBC     #3, AED_L_FLAGS, 108$                  ; 1178
                  18   AE   0000'         CF  9E 00CBB        MOVAB   AED_Q_LINETABLE, ACE_NEWADDR           ; 1181
                  52          18          AE  D0 00CC1        MOVL    ACE_NEWADDR, R2                        ; 1184
                  53        0000'         CF  9A 00CC5        MOVZBL  AED_B_LINE, R3                         ; 1187
              18  AE                      62  D0 00CCA 106$:  MOVL    (R2), ACE_NEWADDR                      ; 1184
                  52          18          AE  D0 00CCE        MOVL    ACE_NEWADDR, R2                        ; 1185
           0000'  CF          08          A2  B0 00CD2        MOVW    8(R2), AED_Q_OUTLINE                   ;
           0000'  CF          14          A2  9E 00CD8        MOVAB   20(R2), AED_Q_OUTLINE+4                ; 1186
                                          01  DD 00CDE        PUSHL   #1                                     ; 1187
                                          53  DD 00CE0        PUSHL   R3                                     ;
           0000G  CF                      02  FB 00CE2        CALLS   #2, AED_SET_CURSOR                     ;
                            0000'         CF  9F 00CE7        PUSHAB  AED_Q_OUTLINE                          ; 1188
           0000V  CF                      01  FB 00CEB        CALLS   #1, AED_PUTOUTPUT                      ;
                            0000'         CF  96 00CF0        INCB    AED_B_LINE                             ; 1189
                  53        0000'         CF  9A 00CF4        MOVZBL  AED_B_LINE, R3                         ; 1191
                  14                      53  91 00CF9        CMPB    R3, #20                                ;
                                          0A  1A 00CFC        BGTRU   107$                                   ;
                  50        0000'         CF  9E 00CFE        MOVAB   AED_Q_LINETABLE, R0                    ; 1192
                  50                      62  D1 00D03        CMPL    (R2), R0                               ;
                                          C2  12 00D06        BNEQ    106$                                   ;
           0000'  CF                      01  90 00D08 107$:  MOVB    #1, AED_B_LINE                         ; 1193
                                          01  DD 00D0D        PUSHL   #1                                     ; 1194
                                          01  DD 00D0F        PUSHL   #1                                     ;
           0000G  CF                      02  FB 00D11        CALLS   #2, AED_SET_CURSOR                     ;
           0000G  CF                      00  FB 00D16 108$:  CALLS   #0, AED_PROCESSACL                     ; 1200
           0000G  CF                      00  FB 00D1B        CALLS   #0, AED_FLUSHKEY                       ; 1205
           0000G  CF                      00  FB 00D20        CALLS   #0, AED_CLEANUP                        ; 1206
      50        0000'  CF 10000000        8F  C9 00D25 109$:  BISL3   #268435456, AED_L_WORSTERR, R0         ; 1208
                                          04     00D2F        RET                                            ; 1210
                                        0000     00D30 110$:  .WORD   Save nothing                           ; 0600
                                          7E  D4 00D32        CLRL    -(SP)                                  ;
                                          5E  DD 00D34        PUSHL   SP                                     ;
                  7E          04          AC  7D 00D36        MOVQ    4(AP), -(SP)                           ;
           0000V  CF                      03  FB 00D3A        CALLS   #3, AED_HANDLER                        ;
                                          04     00D3F        RET                                            ;

; Routine Size:  3392 bytes,    Routine Base:  $CODE$ + 0000
```

```
;   762          1211  1 GLOBAL ROUTINE AED_FILERROR (ERROR_CODE, FAB, PRI_STATUS, SEC_STATUS) : NOVALUE =
;   763          1212  1
;   764          1213  1 !++
;   765          1214  1 !
;   766          1215  1 ! FUNCTIONAL DESCRIPTION:
;   767          1216  1 !
;   768          1217  1 !       This routine is the common error reporting routine for the ACL
;   769          1218  1 !       editor.
;   770          1219  1 !
;   771          1220  1 ! CALLING SEQUENCE:
;   772          1221  1 !       AED_ERROR (ARG1, ARG2, ARG3, ARG4)
;   773          1222  1 !
;   774          1223  1 ! INPUT PARAMETERS:
;   775          1224  1 !       ARG1: the facility error code
;   776          1225  1 !       ARG2: the address of the related FAB for RMS errors
;   777          1226  1 !       ARG3: the primary RMS error code
;   778          1227  1 !       ARG4: the secondary RMS error code
;   779          1228  1 !
;   780          1229  1 ! IMPLICIT INPUTS:
;   781          1230  1 !       none
;   782          1231  1 !
;   783          1232  1 ! OUTPUT PARAMETERS:
;   784          1233  1 !       none
;   785          1234  1 !
;   786          1235  1 ! IMPLICIT OUTPUTS:
;   787          1236  1 !       none
;   788          1237  1 !
;   789          1238  1 ! ROUTINE VALUE:
;   790          1239  1 !       none
;   791          1240  1 !
;   792          1241  1 ! SIDE EFFECTS:
;   793          1242  1 !       none
;   794          1243  1 !
;   795          1244  1 !--
;   796          1245  1
;   797          1246  2 BEGIN
;   798          1247  2
;   799          1248  2 MAP
;   800          1249  2         FAB             : REF $BBLOCK;          ! Address of the FAB
;   801          1250  2
;   802          1251  2 BIND
;   803          1252  2         NAM             = .FAB[FAB$L_NAM]       : $BBLOCK;      ! Address of the NAM block
;   804          1253  2
;   805          1254  2 LOCAL
;   806          1255  2         FILE_NAME       : $BBLOCK [DSC$C_S_BLN];        ! File name storage
;   807          1256  2
;   808          1257  2 CH$FILL (0, DSC$C_S_BLN, FILE_NAME);
;   809          1258  2 IF .NAM[NAM$B_RSL] NEQ 0                             ! Use resultant name if present
;   810          1259  2 THEN
;   811          1260  3     BEGIN
;   812          1261  3     FILE_NAME[DSC$A_POINTER] = .NAM[NAM$L_RSA];
;   813          1262  3     FILE_NAME[DSC$W_LENGTH] = .NAM[NAM$B_RSL];
;   814          1263  3     END
;   815          1264  2 ELSE IF .NAM[NAM$B_ESL] NEQ 0                        ! Use expanded name if no resultant
;   816          1265  2 THEN
;   817          1266  3     BEGIN
;   818          1267  3     FILE_NAME[DSC$A_POINTER] = .NAM[NAM$L_ESA];
```

```
;  819          1268  3      FILE_NAME[DSC$W_LENGTH] = .NAM[NAM$B_ESL];
;  820          1269  3      END
;  821          1270  2  ELSE
;  822          1271  3      BEGIN
;  823          1272  3      FILE_NAME[DSC$A_POINTER] = .FAB[FAB$L_FNA]; ! Use Original if no expanded
;  824          1273  3      FILE_NAME[DSC$W_LENGTH] = .FAB[FAB$B_FNS];
;  825          1274  2      END;
;  826          1275  2
;  827          1276  2  SIGNAL (.ERROR_CODE, 1, FILE_NAME, .PRI_STATUS, .SEC_STATUS);
;  828          1277  2
;  829          1278  2  RETURN;
;  830          1279  2
;  831          1280  1  END;                                    ! End of routine AED_FILERROR


                                    03FC 00000          .ENTRY  AED_FILERROR, Save R2,R3,R4,R5,R6,R7,R8,R9 ; 1211
                          59 00000000G  00   9E 00002   MOVAB   SCR$SET_CURSOR, R9                          ;
                          58      0000' CF   9E 00009   MOVAB   AED_L_FLAGS, R8                            ;
                          5E            08   C2 0000E   SUBL2   #8, SP                                    ;
                          57        08  AC   D0 00011   MOVL    FAB, R7                                    ; 1252
                          56        28  A7   D0 00015   MOVL    40(R7), R6                                 ;
        08          00    6E            00   2C 00019   MOVC5   #0, (SP), #0, #8, FILE_NAME               ; 1257
                                        6E        0001E
                                    03  A6   95 0001F   TSTB    3(R6)                                      ; 1258
                                    0B  13 00022        BEQL    1$                                         ;
                      04    AE        04  A6   D0 00024   MOVL    4(R6), FILE_NAME+4                         ; 1261
                            6E        03  A6   9B 00029   MOVZBW  3(R6), FILE_NAME                           ; 1262
                                      19  11 0002D        BRB     3$                                         ; 1258
                                    0B  A6   95 0002F 1$:   TSTB    11(R6)                                     ; 1264
                                    0B  13 00032        BEQL    2$                                         ;
                      04    AE        0C  A6   D0 00034   MOVL    12(R6), FILE_NAME+4                        ; 1267
                            6E        0B  A6   9B 00039   MOVZBW  11(R6), FILE_NAME                          ; 1268
                                      09  11 0003D        BRB     3$                                         ; 1264
                      04    AE        2C  A7   D0 0003F 2$:   MOVL    44(R7), FILE_NAME+4                        ; 1272
                            6E        34  A7   9B 00044   MOVZBW  52(R7), FILE_NAME                          ; 1273
              12            68            03   E1 00048 3$:   BBC     #3, AED_L_FLAGS, 4$                        ; 1276
                                        01   DD 0004C   PUSHL   #1                                          ;
                                        15   DD 0004E   PUSHL   #21                                         ;
                00000000G   00            02   FB 00050   CALLS   #2, SCR$ERASE_PAGE                         ;
                                        01   DD 00057   PUSHL   #1                                          ;
                                        15   DD 00059   PUSHL   #21                                         ;
                            69            02   FB 0005B   CALLS   #2, SCR$SET_CURSOR                         ;
                            7E        0C  AC   7D 0005E 4$:   MOVQ    PRI_STATUS, -(SP)                          ;
                                      08  AE   9F 00062   PUSHAB  FILE_NAME                                  ;
                                      01   DD 00065   PUSHL   #1                                          ;
                                    04  AC   DD 00067   PUSHL   ERROR_CODE                                  ;
                00000000G   00            05   FB 0006A   CALLS   #5, LIB$SIGNAL                            ;
              0B            68            03   E1 00071   BBC     #3, AED_L_FLAGS, 5$                        ;
                            7E        20  A8   9A 00075   MOVZBL  AED_B_COLUMN, -(SP)                       ;
                            7E        24  A8   9A 00079   MOVZBL  AED_B_LINE, -(SP)                         ;
                            69            02   FB 0007D   CALLS   #2, SCR$SET_CURSOR                         ;
                            07        04  AC   93 00080 5$:   BITB    ERROR_CODE, #7                             ;
                                      13   13 00084        BEQL    6$                                         ;
    50      04  AC            03            00   EF 00086   EXTZV   #0, #3, ERROR_CODE, R0                  ;
```

```
                50      14   A8          03          00  ED 0008C          CMPZV   #0, #3, AED_L_WORSTERR, R0      ;
                                         05  18 00092                     BGEQ    6$                              ;
                                14   A8     04   AC  D0 00094             MOVL    ERROR_CODE, AED_L_WORSTERR      ;
                                                    04 00099 6$:          RET                                     ; 1280

; Routine Size:  154 bytes,    Routine Base:  $CODE$ + 0D40
```

```
;  833          1281  1 ROUTINE AED_CTRLCAST : NOVALUE =
;  834          1282  1
;  835          1283  1 !++
;  836          1284  1 !
;  837          1285  1 ! FUNCTIONAL DESCRIPTION:
;  838          1286  1 !
;  839          1287  1 !       This routine is called when the user types a control-C.  It resets
;  840          1288  1 !       the necessary terminal characteristics, unwinds all the way, and then
;  841          1289  1 !       returns.  This is necessary to support a callable ACL editor.
;  842          1290  1 !
;  843          1291  1 ! CALLING SEQUENCE:
;  844          1292  1 !       AED_CNTRLCAST ()
;  845          1293  1 !
;  846          1294  1 ! INPUT PARAMETERS:
;  847          1295  1 !       none
;  848          1296  1 ! IMPLICIT INPUTS:
;  849          1297  1 !       none
;  850          1298  1 !
;  851          1299  1 ! OUTPUT PARAMETERS:
;  852          1300  1 !       none
;  853          1301  1 !
;  854          1302  1 ! IMPLICIT OUTPUTS:
;  855          1303  1 !       none
;  856          1304  1 !
;  857          1305  1 ! ROUTINE VALUE:
;  858          1306  1 !       none
;  859          1307  1 !
;  860          1308  1 ! SIDE EFFECTS:
;  861          1309  1 !       The stack is unwound, and control is returned to the caller of the
;  862          1310  1 !       ACL editor.
;  863          1311  1 !
;  864          1312  1 !--
;  865          1313  1
;  866          1314  2 BEGIN
;  867          1315  2
;  868          1316  2 AED_B_OPTIONS[AED_V_KEEPJNL] = 1;                ! Don't delete journal file
;  869          1317  2 SIGNAL (AED$_CONTROL_C);                         ! Will never return
;  870          1318  2
;  871          1319  2 RETURN;
;  872          1320  2
;  873          1321  1 END;                                             ! End of routine AED_CTRLCAST


                                        001C 00000 AED_CTRLCAST:
                                                   .WORD   Save R2,R3,R4                                ; 1281
                          54 00000000G   8F   D0 00002     MOVL    #AED$_CONTROL_C, R4                 ;
                          53 00000000G   00   9E 00009     MOVAB   SCR$SET_CURSOR, R3                  ;
                          52      0000'  CF   9E 00010     MOVAB   AED_L_FLAGS, R2                     ;
                    04    A2             08   88 00015     BISB2   #8, AED_B_OPTIONS                   ; 1316
               12         62             03   E1 00019     BBC     #3, AED_L_FLAGS, 1$                 ; 1317
                                         01   DD 0001D     PUSHL   #1                                  ;
                                         15   DD 0001F     PUSHL   #21                                 ;
                00000000G  00            02   FB 00021     CALLS   #2, SCR$ERASE_PAGE                  ;
                                         01   DD 00028     PUSHL   #1                                  ;
```

```
                                         15 DD 0002A         PUSHL   #21                                              ;
                             63          02 FB 0002C         CALLS   #2, SCR$SET_CURSOR                               ;
                                         54 DD 0002F 1$:     PUSHL   R4                                               ;
                  00000000G  00          01 FB 00031         CALLS   #1, LIB$SIGNAL                                   ;
              0B             62          03 E1 00038         BBC     #3, AED_L_FLAGS, 2$                              ;
                             7E      20  A2 9A 0003C         MOVZBL  AED_B_COLUMN, -(SP)                              ;
                             7E      24  A2 9A 00040         MOVZBL  AED_B_LINE, -(SP)                                ;
                             63          02 FB 00044         CALLS   #2, SCR$SET_CURSOR                               ;
                               00000000* 8F D5 00047 2$:     TSTL    #<AED$_CONTROL_C&7>                              ;
                                         10 13 0004D         BEQL    3$                                               ;
00000000*  8F       14   A2      03          00 ED 0004F     CMPZV   #0, #3, AED_L_WORSTERR, #<AED$_CONTROL_C&7>      ;
                                         04 18 00059         BGEQ    3$                                               ;
                        14   A2          54 D0 0005B         MOVL    R4, AED_L_WORSTERR                               ;
                                            04 0005F 3$:     RET                                                      ; 1321

; Routine Size:  96 bytes,    Routine Base:  $CODE$ + 0DDA
```

```
;   875          1322  1 ROUTINE AED_HANDLER (SIGNAL_VEC, MECHANISM_VEC) =
;   876          1323  1
;   877          1324  1 !++
;   878          1325  1 !
;   879          1326  1 ! FUNCTIONAL DESCRIPTION:
;   880          1327  1 !
;   881          1328  1 !       This is the main exception handler for the ACL editor.  The
;   882          1329  1 !       purpose it serves is to flush the session log (if any) and reset
;   883          1330  1 !       the terminal characteristics before resignaling the error.
;   884          1331  1 !
;   885          1332  1 ! CALLING SEQUENCE:
;   886          1333  1 !       AED_HANDLER (ARG1, ARG2)
;   887          1334  1 !
;   888          1335  1 ! INPUT PARAMETERS:
;   889          1336  1 !       ARG1: address of the signal array
;   890          1337  1 !       ARG2: address of the mechanism array
;   891          1338  1 !
;   892          1339  1 ! IMPLICIT INPUTS:
;   893          1340  1 !       OWN storage
;   894          1341  1 !
;   895          1342  1 ! OUTPUT PARAMETERS:
;   896          1343  1 !       none
;   897          1344  1 !
;   898          1345  1 ! IMPLICIT OUTPUTS:
;   899          1346  1 !       none
;   900          1347  1 !
;   901          1348  1 ! ROUTINE VALUE:
;   902          1349  1 !       none
;   903          1350  1 !
;   904          1351  1 ! SIDE EFFECTS:
;   905          1352  1 !       none
;   906          1353  1 !
;   907          1354  1 !--
;   908          1355  1
;   909          1356  2 BEGIN
;   910          1357  2
;   911          1358  2 MAP
;   912          1359  2         SIGNAL_VEC      : REF $BBLOCK,          ! The signal vector
;   913          1360  2         MECHANISM_VEC   : REF $BBLOCK;          ! The mechanism vector
;   914          1361  2
;   915          1362  2 ! If the severity is FATAL or this is a control-C abort, do the needed
;   916          1363  2 ! cleanup and reset the terminal characteristics.
;   917          1364  2
;   918          1365  2 IF .$BBLOCK[SIGNAL_VEC[CHF$L_SIG_NAME], STS$V_SEVERITY] EQL STS$K_SEVERE
;   919          1366  2 OR .SIGNAL_VEC[CHF$L_SIG_NAME] EQL AED$_CONTROL_C
;   920          1367  2 THEN
;   921          1368  3     BEGIN
;   922          1369  3     AED_FLUSHKEY ();
;   923          1370  3     AED_CLEANUP ();
;   924          1371  3     IF .SIGNAL_VEC[CHF$L_SIG_NAME] EQL AED$_CONTROL_C
;   925          1372  3     THEN
;   926          1373  4         BEGIN
;   927          1374  4         $UNWIND ();
;   928          1375  4         RETURN 1;
;   929          1376  3         END;
;   930          1377  2     END;
;   931          1378  2
```

```
;  932          1379  2 RETURN SS$_RESIGNAL;
;  933          1380  2
;  934          1381  1 END;                                    ! End of routine AED_HANDLER


                                                                .EXTRN  SYS$UNWIND

                                                        000C 00000 AED_HANDLER:
                                                                .WORD   Save R2,R3                              ; 1322
                                    53 00000000G    8F  D0 00002        MOVL    #AED$_CONTROL_C, R3         ;
                                    52       04     AC  D0 00009        MOVL    SIGNAL_VEC, R2              ; 1365
        04      04  A2              03             00  ED 0000D        CMPZV   #0, #3, 4(R2), #4           ;
                                                    06  13 00013        BEQL    1$                          ;
                                    53       04     A2  D1 00015        CMPL    4(R2), R3                   ; 1366
                                                    1D  12 00019        BNEQ    2$                          ;
                              0000G CF               00  FB 0001B 1$:    CALLS   #0, AED_FLUSHKEY            ; 1369
                              0000G CF               00  FB 00020        CALLS   #0, AED_CLEANUP             ; 1370
                                    53       04     A2  D1 00025        CMPL    4(R2), R3                   ; 1371
                                                    0D  12 00029        BNEQ    2$                          ;
                                                    7E  7C 0002B        CLRQ    -(SP)                       ; 1374
                         00000000G  00              02  FB 0002D        CALLS   #2, SYS$UNWIND              ;
                                    50              01  D0 00034        MOVL    #1, R0                      ; 1375
                                                        04 00037        RET                                 ;
                                    50       0918   8F  3C 00038 2$:    MOVZWL  #2328, R0                   ; 1379
                                                        04 0003D        RET                                 ; 1381

; Routine Size:  62 bytes,    Routine Base:  $CODE$ + 0E3A
```

```
;  936          1382  1 GLOBAL ROUTINE AED_PUTOUTPUT (BUFFER_DESC) =
;  937          1383  1
;  938          1384  1 !++
;  939          1385  1 !
;  940          1386  1 ! FUNCTIONAL DESCRIPTION:
;  941          1387  1 !
;  942          1388  1 !       This routine outputs the buffer pointed to by the specified descriptor
;  943          1389  1 !       to the terminal.  No assumption is made as to the content of the buffer.
;  944          1390  1 !
;  945          1391  1 ! CALLING SEQUENCE:
;  946          1392  1 !       AED_PUTOUTPUT (ARG1)
;  947          1393  1 !
;  948          1394  1 ! INPUT PARAMETERS:
;  949          1395  1 !       ARG1: address of the buffer descriptor
;  950          1396  1 !
;  951          1397  1 ! IMPLICIT INPUTS:
;  952          1398  1 !       AED_W_TERMOUT: channel to use for terminal I/O
;  953          1399  1 !
;  954          1400  1 ! OUTPUT PARAMETERS:
;  955          1401  1 !       none
;  956          1402  1 !
;  957          1403  1 ! IMPLICIT OUTPUTS:
;  958          1404  1 !       none
;  959          1405  1 !
;  960          1406  1 ! ROUTINE VALUE:
;  961          1407  1 !       1 if no errors
;  962          1408  1 !       otherwise an error code
;  963          1409  1 !
;  964          1410  1 ! SIDE EFFECTS:
;  965          1411  1 !       The output display is updated.
;  966          1412  1 !
;  967          1413  1 !--
;  968          1414  1
;  969          1415  2 BEGIN
;  970          1416  2
;  971          1417  2 MAP
;  972          1418  2         BUFFER_DESC     : REF $BBLOCK;          ! Address of the buffer descr
;  973          1419  2
;  974          1420  2 LOCAL
;  975          1421  2         LOCAL_IOSB      : VECTOR [4,WORD],      ! I/O status block
;  976          1422  2         LOCAL_STATUS;                           ! Routine exit status
;  977          1423  2
;  978          1424  2 ! Write the specified buffer to the output device.
;  979          1425  2
;  980        P 1426  2 LOCAL_STATUS = $QIOW (CHAN = .AED_W_TERMOUT,
;  981        P 1427  2                       FUNC = IO$_WRITEVBLK OR IO$M_CANCTRLO,
;  982        P 1428  2                       IOSB = LOCAL_IOSB,
;  983        P 1429  2                       P1 = .BUFFER_DESC[DSC$A_POINTER],
;  984          1430  2                       P2 = .BUFFER_DESC[DSC$W_LENGTH]);
;  985          1431  2
;  986          1432  2 IF .LOCAL_STATUS THEN LOCAL_STATUS = .LOCAL_IOSB[0];
;  987          1433  2 IF NOT .LOCAL_STATUS THEN SIGNAL (.LOCAL_STATUS);
;  988          1434  2 RETURN .LOCAL_STATUS;
;  989          1435  2
;  990          1436  1 END;                                            ! End of routine AED_PUTOUTPUT
```

```
                                001C 00000          .ENTRY  AED_PUTOUTPUT, Save R2,R3,R4                    ; 1382
                        54 00000000G   00   9E 00002    MOVAB   SCR$SET_CURSOR, R4
                        53      0000'  CF   9E 00009    MOVAB   AED_L_FLAGS, R3
                        5E             08   C2 0000E    SUBL2   #8, SP
                                       7E   7C 00011    CLRQ    -(SP)                                   ; 1430
                                       7E   7C 00013    CLRQ    -(SP)
                        50        04   AC   D0 00015    MOVL    BUFFER_DESC, R0
                        7E             60   3C 00019    MOVZWL  (R0), -(SP)
                                  04   A0   DD 0001C    PUSHL   4(R0)
                                       7E   7C 0001F    CLRQ    -(SP)
                                  20   AE   9F 00021    PUSHAB  LOCAL_IOSB
                        7E        70   8F   9A 00024    MOVZBL  #112, -(SP)
                        7E      0080   C3   3C 00028    MOVZWL  AED_W_TERMOUT, -(SP)
                                       7E   D4 0002D    CLRL    -(SP)
              00000000G 00             0C   FB 0002F    CALLS   #12, SYS$QIOW
                        52             50   D0 00036    MOVL    R0, LOCAL_STATUS
                        06             52   E9 00039    BLBC    LOCAL_STATUS, 1$                        ; 1432
                        52             6E   3C 0003C    MOVZWL  LOCAL_IOSB, LOCAL_STATUS
                        44             52   E8 0003F    BLBS    LOCAL_STATUS, 4$                        ; 1433
                12      63             03   E1 00042 1$: BBC     #3, AED_L_FLAGS, 2$
                                       01   DD 00046    PUSHL   #1
                                       15   DD 00048    PUSHL   #21
              00000000G 00             02   FB 0004A    CALLS   #2, SCR$ERASE_PAGE
                                       01   DD 00051    PUSHL   #1
                                       15   DD 00053    PUSHL   #21
                        64             02   FB 00055    CALLS   #2, SCR$SET_CURSOR
                                       52   DD 00058 2$: PUSHL   LOCAL_STATUS
                    00000000G   00     01   FB 0005A    CALLS   #1, LIB$SIGNAL
                     0B         63     03   E1 00061    BBC     #3, AED_L_FLAGS, 3$
                                7E  20 A3   9A 00065    MOVZBL  AED_B_COLUMN, -(SP)
                                7E  24 A3   9A 00069    MOVZBL  AED_B_LINE, -(SP)
                                64     02   FB 0006D    CALLS   #2, SCR$SET_CURSOR
                                07     52   93 00070 3$: BITB    LOCAL_STATUS, #7
                                       11   13 00073    BEQL    4$
                50              52     03   00   EF 00075    EXTZV   #0, #3, LOCAL_STATUS, R0
                50        14    A3     03   00   ED 0007A    CMPZV   #0, #3, AED_L_WORSTERR, R0
                                       04   18 00080    BGEQ    4$
                              14    A3     52   D0 00082    MOVL    LOCAL_STATUS, AED_L_WORSTERR
                                50     52   D0 00086 4$: MOVL    LOCAL_STATUS, R0                        ; 1434
                                       04 00089    RET                                                 ; 1436

; Routine Size:  138 bytes,    Routine Base:  $CODE$ + 0E78

;  991          1437  1
;  992          1438  1 END
;  993          1439  0 ELUDOM



;                                PSECT SUMMARY
```

```
;
;       Name                    Bytes                   Attributes
;
;  AED_COMMON                    1320  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  OVR,NOPIC,ALIGN(0)
;  $OWN$                          180  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $PLIT$                         504  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                        3842  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                           Library Statistics
;                                      --------  Symbols  --------      Pages       Processing
;       File                           Total     Loaded   Percent       Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1        18619        204         1         1000        00:01.9
;  _$255$DUA28:[SYSLIB]TPAMAC.L32;1        42          0         0           14        00:00.2



;                                COMMAND QUALIFIERS
;
;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:AEDINIT/OBJ=OBJ$:AEDINIT MSRC$:AEDINIT/UPDATE=(ENH$:AEDINIT)

; Size:          3842 code + 2004 data bytes
; Run Time:         01:12.8
; Elapsed Time:     03:34.9
; Lines/CPU Min:     1185
; Lexemes/CPU-Min: 27967
; Memory Used:  963 pages
; Compilation Complete
```

0003 AH-BT13A-SE
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