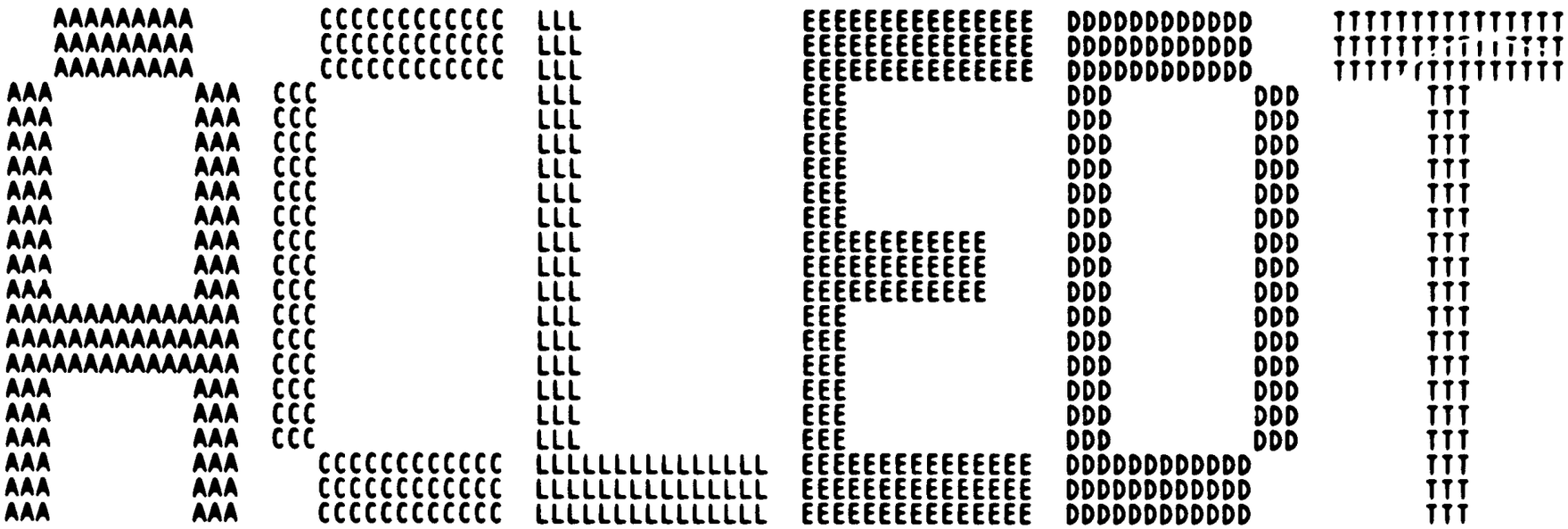
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```
;     1          0001  0 MODULE AED$INIT (
;     2          0002  0                   LANGUAGE (BLISS32),
;     3          0003  0                   IDENT = 'V04-000',
;     4          0004  0                   MAIN = AED_INIT
;     5          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                                  *
;    11          0011  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                    *
;    12          0012  1 !*  ALL RIGHTS RESERVED.                                                      *
;    13          0013  1 !*                                                                           *
;    14          0014  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED     *
;    15          0015  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE    *
;    16          0016  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER     *
;    17          0017  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY     *
;    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     *
;    23          0023  1 !*  CORPORATION.                                                              *
;    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 !       V03-017 LMP0270         L. Mark Pilant,         29-Jun-1984  8:44
;    59          0059  1 !               Correctly handle a control-C.
;    60          0060  1 !
;    61          0061  1 !       V03-016 LMP0268         L. Mark Pilant,         28-Jun-1984  15:02
;    62          0062  1 !               Dont' delete the journal file if aborting via control-C.
;    63          0063  1 !
;    64          0064  1 !       V03-015 LMP0230         L. Mark Pilant,         16-Apr-1984  9:14
;    65          0065  1 !               Track changes made to the $CHANGE_ACL system service.
;    66          0066  1 !
;    67          0067  1 !       V03-014 LMP0223         L. Mark Pilant,         6-Apr-1984  13:05
;    68          0068  1 !               Use the correct amount of storage for the lock block.
;    69          0069  1 !
;    70          0070  1 !       V03-013 LMP0213         L. Mark Pilant,         24-Mar-1984  12:23
;    71          0071  1 !               Add support for locking and unlocking the object's ACL.
;    72          0072  1 !
;    73          0073  1 !       V03-012 LMP0193         L. Mark Pilant,         14-Feb-1984  11:46
;    74          0074  1 !               Modify the way the journal and recovery files are used.
;    75          0075  1 !               Instead of the ACL, it now logs key-strokes.
;    76          0076  1 !
;    77          0077  1 !       V03-011 LMP0185         L. Mark Pilant,         4-Feb-1984  12:20
;    78          0078  1 !               Add support for device ACLs.
;    79          0079  1 !
;    80          0080  1 !       V03-010 LMP0181         L. Mark Pilant,         15-Dec-1983  9:51
;    81          0081  1 !               Change code to use $CHANGE_ACL instead of the ACP to do
;    82          0082  1 !               ACL twiddling.
;    83          0083  1 !
;    84          0084  1 !       V03-009 LMP0172         L. Mark Pilant,         28-Nov-1983  12:11
;    85          0085  1 !               Numerous bug fixes, support for VT2xx terminals, and a
;    86          0086  1 !               session keystroke logger.
;    87          0087  1 !
;    88          0088  1 !       V03-008 LMP0147         L. Mark Pilant,         29-Aug-1983  9:48
;    89          0089  1 !               Add support for handling multi-line ACEs during initialization.
;    90          0090  1 !
;    91          0091  1 !       V03-007 LMP0144         L. Mark Pilant,         25-Aug-1983  10:12
;    92          0092  1 !               Remember initial state of the keypad.
;    93          0093  1 !
;    94          0094  1 !       V03-006 LMP0142         L. Mark Pilant,         24-Aug-1983  3:18
;    95          0095  1 !               Change references to ACLEDIT$INI to be ACLEDIT$INIT.
;    96          0096  1 !
;    97          0097  1 !       V03-005 LMP0103         L. Mark Pilant,         27-Apr-1983  15:20
;    98          0098  1 !               Add support for HIDDEN and PROTETCED ACEs.
;    99          0099  1 !
;   100          0100  1 !       V03-004 LMP0102         L. Mark Pilant,         19-Apr-1983  14:59
;   101          0101  1 !               Use correct funtion codes when building a file's ACL from a
;   102          0102  1 !               recovery journal file.
;   103          0103  1 !
;   104          0104  1 !       V03-003 LMP0100         L. Mark Pilant,         14-Apr-1983  12:12
;   105          0105  1 !               Add the $FORMAT_ACL and $PARSE_ACL system services.
;   106          0106  1 !
;   107          0107  1 !       V03-002 LMP0076         L. Mark Pilant,         24-Jan-1983  9:06
;   108          0108  1 !               Add support for an action definition file.
;   109          0109  1 !
;   110          0110  1 !       V03-001 LMP0074         L. Mark Pilant,         20-Jan-1983  12:07
;   111          0111  1 !               Add support for handling RMS journal ACE's.
;   112          0112  1 !
;   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>,
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;  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
```

```
4           BEGIN
4           SIGNAL (.AED_L_STATUS);
4           RETURN .AED_C_WORSTERR OR STS$M_INHIB_MSG;
3           END;
3       SCR$ERASE_PAGE (1, 1);
3       SCR$SET_SCROLL (1, 20);                         ! Set up the scrolling region
4       IF (.AED_L_FLAGS[AED_V_VT5X] OR .AED_L_FLAGS[AED_V_VT1XX])
3       AND NOT .AED_L_FLAGS[AED_V_APPLICAT]
3       THEN AED_PUTOUTPUT ($DESCRIPTOR (%CHAR(AED_C_CHAR_ESC),'='));
2       END;
2
2   ! Get the name of the object whose ACL is to be modified.
2
2   CLI$GET_VALUE ($DESCRIPTOR ('INPUT'), AED_Q_OBJNAM);
2
2   ! Determine what DCL verb and option used to invoke this image.  Also, set the
2   ! appropriate default object type code.
2
2   CLI$GET_VALUE ($DESCRIPTOR ('$VERB'), VERB_DESC);
2   IF CH$EQL (.VERB_DESC[DSC$W_LENGTH], .VERB_DESC[DSC$A_POINTER],
2              MINU (.VERB_DESC[DSC$W_LENGTH], %CHARCOUNT ('EDIT')), UPLIT ('EDIT'),
2              0)
2   THEN AED_L_OBJTYP = ACL$C_FILE;                             ! Set default type
2
2   IF CH$EQL (.VERB_DESC[DSC$W_LENGTH], .VERB_DESC[DSC$A_POINTER],
2              MINU (.VERB_DESC[DSC$W_LENGTH], %CHARCOUNT ('SET')), UPLIT ('SET'),
2              0)
2   THEN
3       BEGIN
3       CLI$GET_VALUE ($DESCRIPTOR ('OPTION'), CMD_DESC);
3       IF CH$EQL (.CMD_DESC[DSC$W_LENGTH], .CMD_DESC[DSC$A_POINTER],
3                  MINU (.CMD_DESC[DSC$W_LENGTH], %CHARCOUNT ('FILE')), UPLIT ('FILE'),
3                  0)
3       THEN
4           BEGIN
4           AED_L_FLAGS[AED_V_SET_FILE_CMD] = 1;
4           AED_L_OBJTYP = ACL$C_FILE;
3           END;
3
3       IF CH$EQL (.CMD_DESC[DSC$W_LENGTH], .CMD_DESC[DSC$A_POINTER],
3                  MINU (.CMD_DESC[DSC$W_LENGTH], %CHARCOUNT ('DIRECTORY')), UPLIT ('DIRECTORY'),
3                  0)
3       THEN
4           BEGIN
4           AED_L_FLAGS[AED_V_SET_DIR_CMD] = 1;
4           AED_L_OBJTYP = ACL$C_FILE;
3           END;
3
3       IF CH$EQL (.CMD_DESC[DSC$W_LENGTH], .CMD_DESC[DSC$A_POINTER],
3                  MINU (.CMD_DESC[DSC$W_LENGTH], %CHARCOUNT ('DEVICE')), UPLIT ('DEVICE'),
3                  0)
3       THEN
4           BEGIN
4           AED_L_FLAGS[AED_V_SET_DEV_CMD] = 1;
4           AED_L_OBJTYP = ACL$C_DEVICE;
3           END;
3
```

```
;  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  3 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  3     BEGIN
;  482          0932  3     IF .AED_L_STATUS EQL SS$_NOTQUEUED
;  483          0933  4     THEN SIGNAL (AED$_OBJLOCKED)
;  484          0934  3     ELSE SIGNAL (.AED_L_STATUS);
;  485          0935  3     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  3     BEGIN
;  496          0946  3     OBJECT_FAB[FAB$L_FNA] = .AED_Q_OBJNAM[DSC$A_POINTER];
;  497          0947  3     OBJECT_FAB[FAB$B_FNS] = .AED_Q_OBJNAM[DSC$W_LENGTH];
;  498          0948  4     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$M_INHIB_MSG;
;  504          0954  3         END;
;  505          0955  3
;  506          0956  3     AED_Q_OBJNAM[DSC$W_LENGTH] = .OBJECT_NAM[NAM$B_RSL];
;  507          0957  3     AED_Q_OBJNAM[DSC$A_POINTER] = .OBJECT_NAM[NAM$L_RSA];
;  508          0958  3     AED_W_OBJCHAN = .OBJECT_FAB[FAB$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  3         END;
;  526          0976  3     AED_L_FLAGS[AED_V_DIRECTORY] = .FILE_HEADER[FH2$V_DIRECTORY];
;  527          0977  3     CH$FILL (0, 2*ITM$S_ITEM, ATR_ARGLIST);
;  528          0978  3     END
;  529          0979  2 ELSE
;  530          0980  3     BEGIN
;  531          0981  3     OBJECT_FAB[FAB$L_FNA] = .AED_Q_OBJNAM[DSC$A_POINTER];
;  532          0982  3     OBJECT_FAB[FAB$B_FNS] = .AED_Q_OBJNAM[DSC$W_LENGTH];
;  533          0983  3     IF .AED_L_OBJTYP EQL ACL$C_DEVICE
;  534          0984  3     AND .VECTOR [.AED_Q_OBJNAM[DSC$A_POINTER], .AED_Q_OBJNAM[DSC$W_LENGTH] - 1; , BYTE] EQL ':'
;  535          0985  3     THEN OBJECT_FAB[FAB$B_FNS] = .OBJECT_FAB[FAB$B_FNS] - 1;
;  536          0986  3
```

```
;  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
```

```
;  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  2     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$M_INHIB_MSG;
;  643          1093  3         END;
;  644          1094  3     ACE_POINTER = .AED_A_ACLBUFFER;
;  645          1095  3     UNTIL .ACE_POINTER GEQA .AED_A_ACLBUFFER + 512
;  646          1096  3     DO
;  647          1097  4         BEGIN
;  648          1098  4         IF .ACE_POINTER[ACE$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_L_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_L_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 + $BYTEOFFSET (LINE_T_TEXT),
;  675          1125  5                                       NEW_TEXT_LINE);
;  676          1126  5              IF NOT .AED_L_STATUS
;  677          1127  5              THEN
;  678          1128  6                  BEGIN
;  679          1129  6                  SIGNAL (.AED_L_STATUS);
;  680          1130  6                  RETURN .AED_L_WORSTERR OR STS$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_L_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 + $BYTEOFFSET (LINE_T_TEXT),
;  695          1145  5                                       NEW_TEXT_LINE);
;  696          1146  5              IF NOT .AED_L_STATUS
;  697          1147  5              THEN
;  698          1148  6                  BEGIN
;  699          1149  6                  SIGNAL (.AED_L_STATUS);
;  700          1150  6                  RETURN .AED_L_WORSTERR OR STS$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_L_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:
                        .BLKL   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  49  44  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  00090 P.AAV:  .ASCII  \OBJECT_TYPE.FILE\   ;
                                                 45  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, $RMS_PTR+60               :
                                           7E  7C 0020F        CLRQ    -(SP)                                  : 0718
                                   0000'   CF  9F 00211        PUSHAB  AED_W_TERMIN                           :
                                   0000'   CF  9F 00215        PUSHAB  P.AAC                                  :
                 00000000G  00             04  FB 00219        CALLS   #4, SY   SIGN                          :
                     0000'  CF             50  D0 00220        MOVL    R0, A     STATUS                       :
                            03     0000'   CF  E8 00225        BLBS    AED_L_  ATUS, 1$                       : 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  00040C04   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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                      0000000G  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$:  CLRQ     -(SP)                             ; 0785
                                          7E 7C 0033E      CLRQ     -(SP)                             ;
                                          7E D4 00340      CLRL     -(SP)                             ;
                                       C4 AD 9F 00342      PUSHAB   TERM_CHAR                         ;
                                          7E 7C 00345      CLRQ     -(SP)                             ;
                                    0000' CF 9F 00347      PUSHAB   AED_W_IOSB                        ;
                                          27 DD 0034B      PUSHL    #39                               ;
                                7E  0000' CF 3C 0034D      MOVZWL   AED_W_TERMOUT, -(SP)              ;
                                          7E D4 00352      CLRL     -(SP)                             ;
                      0000000G  00        0C FB 00354      CALLS    #12, SYS$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)                             ;
                      0000000G  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   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  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];
```

```
;      3      FILE_NAME[DSC$W_LENGTH] = .NAM[NAM$B_ESL];
;      3      END
;      2  ELSE
;      3      BEGIN
;      3      FILE_NAME[DSC$A_POINTER] = .FAB[FAB$L_FNA]; ! Use Original if no expanded
;      3      FILE_NAME[DSC$W_LENGTH] = .FAB[FAB$B_FNS];
;      2      END;
;      2
;      2  SIGNAL (.ERROR_CODE, 1, FILE_NAME, .PRI_STATUS, .SEC_STATUS);
;      2
;      2  RETURN;
;      2
;      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  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
```

```
1 ROUTINE AED_CTRLCAST : NOVALUE =
1
1 !++
1 !
1 ! FUNCTIONAL DESCRIPTION:
1 !
1 !       This routine is called when the user types a control-C.  It resets
1 !       the necessary terminal characteristics, unwinds all the way, and then
1 !       returns.  This is necessary to support a callable ACL editor.
1 !
1 ! CALLING SEQUENCE:
1 !       AED_CNTRLCAST ()
1 !
1 ! INPUT PARAMETERS:
1 !       none
1 ! IMPLICIT INPUTS:
1 !       none
1 !
1 ! OUTPUT PARAMETERS:
1 !       none
1 !
1 ! IMPLICIT OUTPUTS:
1 !       none
1 !
1 ! ROUTINE VALUE:
1 !       none
1 !
1 ! SIDE EFFECTS:
1 !       The stack is unwound, and control is returned to the caller of the
1 !       ACL editor.
1 !
1 !--
1
2 BEGIN
2
2 AED_B_OPTIONS[AED_V_KEEPJNL] = 1;                  ! Don't delete journal file
2 SIGNAL (AED$_CONTROL_C);                           ! Will never return
2
2 RETURN;
2
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$SET_CURSOR, R4                    ;
                   53     0000'  CF     9E 00009         MOVAB   AED_L_FLAGS, R3                       ;
                   5E            08     C2 0000E         SUBL2   #8, SP                                ;
                                 7E     7C 00011         CLRQ    -(SP)                                 ; 1430
                                 7E     7C 00013         CLRQ    -(SP)                                 ;
                   50        04  AC     D0 00015         MOVL    BUFFER_DESC, R0                       ;
                   7E            6C     3C 00019         MOVZWL  (R0), -(SP)                           ;
                             04  A0     DD 0001C         PUSHL   4(R0)                                 ;
                                 7E     7C 0001F         CLRQ    -(SP)                                 ;
                             20  AE     9F 00021         PUSHAB  LOCAL_IOSB                            ;
                   7E        70  8F     9A 00024         MOVZBL  #112, -(SP)                           ;
                   7E      0080  C3     3C 00028         MOVZWL  AED_W_TERMOUT, -(SP)                  ;
                                 7E     D4 0002D         CLRL    -(SP)                                 ;
           00000000G  00         0C     FB 0002F         CALLS   #12, SYS$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
```

AEDHELP
LIS

AEDINIT
LIS

AEDMAIN
LIS

AEDKEYTAB
LIS