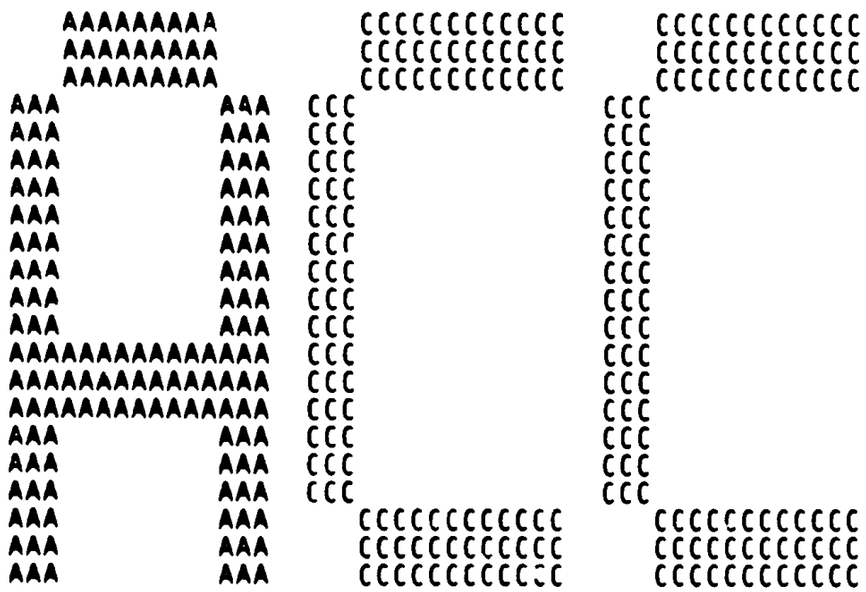
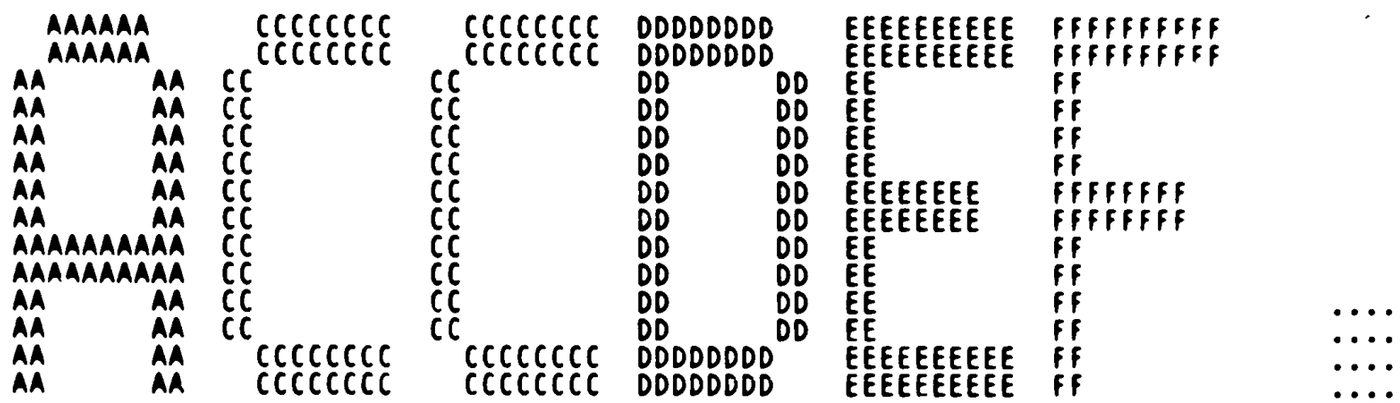
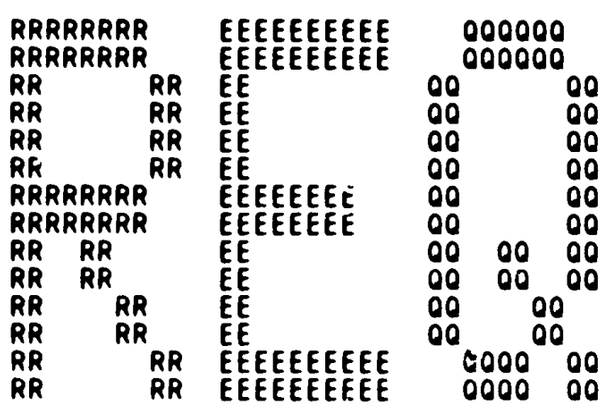
TITLE1**AH-Bi13A-BE
TITLE2**VAX/VMS V4.0
FICHENUMBER**1




AAAAAA CCCCCCCC CCCCCCCC DDDDDDDD EEEEEEEEEE FFFFFFFFFF
AAAAAA CCCCCCCC CCCCCCCC DDDDDDDD EEEEEEEEEE FFFFFFFFFF
AA AA CC CC DD DD EE FF
AA AA CC CC DD DD EE FF
AA AA CC CC DD DD EE FF
AA AA CC CC DD DD EE FF
AA AA CC CC DD DD EEEEEEEE FFFFFFFF
AA AA CC CC DD DD EEEEEEEE FFFFFFFF
AAAAAAAAAA CC CC DD DD EE FF
AAAAAAAAAA CC CC DD DD EE FF
AA AA CC CC DD DD EE FF
AA AA CC CC DD DD EE FF
AA AA CCCCCCCC CCCCCCCC DDDDDDDD EEEEEEEEEE FF
AA AA CCCCCCCC CCCCCCCC DDDDDDDD EEEEEEEEEE FF


RRRRRRRR EEEEEEEEEE QQQQQQ
RRRRRRRR EEEEEEEEEE QQQQQQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RRRRRRRR EEEEEEEE QQ QQ
RRRRRRRR EEEEEEEE QQ QQ
RR RR EE QQ QQ QQ
RR RR EE QQ QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EEEEEEEEEE QQQQ QQ
RR RR EEEEEEEEEE QQQQ QQ

```
!MODULE ACCDEF( IDENT = 'V04-000' ) =

!
!****************************************************************************
!*                                                                          *
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!****************************************************************************

!++
! FACILITY:  ACC, Account file dumper
!
! ABSTRACT:
!
!       This file contains definitions of general applicability to
!       the accounting facility
!
! ENVIRONMENT:
!
!       VAX/VMS operating system. unprivileged user mode,
!
! AUTHOR:  Greg Robert and Steve Forgey, January 1982
!
! Modified by:
!
!       V03-002 TMH0002         Tim Halvorsen   14-Apr-1984
!               Remove MOVE_QUAD macro, which now exists in UTILDEF.
!
!       V03-001 DAS0001         David Solomon   03-Jan-1984
!               Remove two unused shared message definitions (CREATED and
!               EXISTS). Change declaration of message codes from ACC_ to ACC$_.
!               Add literal for summation table index. Add ACC$_INVACCREC.
!               Allow error code LIB$_INPSTRTRU on call to SCR$GET_SCREEN in
!               GET_REPLY macro.
!--

!----------------------------------------------------------------------------
!                               PROGRAM CONTROL
```

```
!----------------------------------------------------------------------------
SWITCHES
        ADDRESSING_MODE(
            EXTERNAL=GENERAL,
            NONEXTERNAL=WORD_RELATIVE);

PSECT
        CODE=           CODE,

        PLIT=           CODE,
        OWN=            DATA(ADDRESSING_MODE(LONG_RELATIVE)),
        GLOBAL=         DATA;

!----------------------------------------------------------------------------
!                               INCLUDE  FILES
!----------------------------------------------------------------------------

LIBRARY 'SYS$LIBRARY:STARLET';  ! VAX/VMS common definitions
REQUIRE 'SHRLIB$:UTILDEF';      ! Common VMS/DEVELOPMENT macros
LIBRARY 'SYS$LIBRARY:TPAMAC';   ! TPARSE macros
```

DEFINE EXTERNAL REFERENCES

```
EXTERNAL LITERAL

        ACC$_INVACCREC,         ! Invalid accounting record format
        ACC$_TOTAL,             ! Totals selected/rejected message
        ACC$_MERGE,             ! "Merge phase beginning" message
        ACC$_INPUT,             ! File name/number message
        ACC$_TITLETRUNC;        ! Title truncation warning

EXTERNAL ROUTINE

        ADD_SYMBOL,             ! Add a symbol to a symbol table
        ALLOCATE,               ! Gets virtual memory
        FIND_WATERMARK,         ! Determine high watermarks
        HANDLER,                ! Local signal processor
        LIB$ADDX,               ! Extended binary addition
        LIB$CVT_DTB,            ! Converts decimal to binary
        LIB$CVT_HTB,            ! Converts hex to binary
        LIB$CVT_TIME,           ! Converts ascii to binary time
        LIB$DAY,                ! Gets days since epoch
        LIB$FILE_SCAN,          ! Does wildcarding and stickiness
        LIB$ICHAR,              ! Converts charater to integer
        LIB$LOOKUP_KEY,         ! Searches keyword lists
        LIB$SUBX,               ! Extended precision subtract
        LIB$SYS_ASCTIM,         ! Converts binary time to ascii
        LIB$SYS_FAO,            ! Formatted ascii output
        LIB$SYS_FAOL,           ! Library FAO routine
        LIB$TPARSE,             ! Library parse routine
        LOG_FILENAME,           ! Signals filenames and error messages
        LOOKUP_SYMBOL,          ! Lookup a symbol in a symbol table
        MAP_QUALIFIERS,         ! Establish qualifer maps
        PARSE_OUTPUT_FILES,     ! Sets up output fabs, rabs
        RELEASE_TO_SORT,        ! Build keys and release to sort
        SCAN_SYMBOLS,           ! Call action routine for every symbol
        SHOW_RECORD,            ! Dispatch to output routines
        SOR$END_SORT,           ! Clean up files etc.
        SOR$INIT_SORT,          ! Initialize sort routines
        SOR$RELEASE_REC,        ! SORT32 record interface routine
        SOR$RETURN_REC,         ! Fetch a sorted record
        SOR$SORT_MERGE,         ! Initiate merge processing
        STR$APPEND,             ! Appends strings
        STR$COMPARE,            ! Compares two strings
        STR$DUPL_CHAR,          ! Generates a string
        STR$LEFT,               ! Extract left justified substring
        STR$PREFIX,             ! Prefix strings
        STR$REPLACE,            ! Replaces substrings
        STR$RIGHT,              ! Strips leading strings
        STRIP_NEGATOR,          ! Check/strip leading negator
        STRIP_TRAIL,            ! Strip trailing garbage
        SUMMARIZE,              ! Summation main control loop
```

```
        SYS$NUMTIM,                     ! Converts times
        TRANSLATE_STATUS,               ! Looks up status messages
        WRITE_BAR_GRAPH,                ! Output bar graph
        WRITE_BINARY,                   ! Output a binary record
        WRITE_SUMMARY,                  ! Output summary at end of file
        WRITE_TOTALS;                   ! Output totals at end of program
```

```
!----------------------------------------------------------------------------
!                       DEFINE  INTERNAL  MACROS
!----------------------------------------------------------------------------
MACRO

!
!COMPARE QUADWORD VALUES--
!       Macro to compare two quadword values using the user supplied
!       operator.  This macro is somewhat inefficent if the supplied
!       operator is EQL or NEQL since the expansion becomes (in part):
!
!               IF Q1 EQL Q2 THEN IF Q1 EQL Q2 THEN TRUE ELSE FALSE
!
!       However the complier may remove this inefficeny through optimization.
!       This macro works better for values that are close to one another as
!       it does the equality check of the high order words first.  This
!       macro could be improved by inspecting the supplied operator and
!       generating a tailored macro.
!

COMPARE_QUAD (Q1, OPER, Q2) =

        BEGIN
        BIND A = Q1: VECTOR [2,LONG];
        BIND B = Q2: VECTOR [2,LONG];

        IF    .A[1] EQL .B[1] THEN .A[0] OPER .B[0] ELSE .A[1] OPER .B[1]
        END%,



!
! A) Macro to describe a string
! B) Macro to generate a quadword string descriptor
! C) Macro to generate the address of a string descriptor
! D) Macro to abbreviate last macro

    PRIMDESC [] = %CHARCOUNT (%STRING (%REMAINING)),
                  UPLIT      (%STRING (%REMAINING))%,
    INITDESC [] = BBLOCK [DSC$C_S_BLN]
                  INITIAL (PRIMDESC (%REMAINING))%,
    ADDRDESC [] = UPLIT (PRIMDESC (%REMAINING))%,
    AD []       = ADDRDESC (%REMAINING)%,


!
! FIELD REFERENCE MACROS --
!       Define macros to reference fields.
!

KEY_W_TYPE      = 0,0,16,0%,    ! Sort key type
KEY_W_ORDER     = 2,0,16,0%,    ! Sort order
KEY_W_POS       = 4,0,16,0%,    ! Item position
KEY_W_LENGTH    = 6,0,16,0%,    ! Key length
```

```
SORT_TYPE       = 0,0,16,0%,    ! Sort key type (binary/char etc)
SORT_DESC       = 1,0,32,0%,    ! Address of item descriptor
SORT_LENGTH     = 2,0,16,0%,    ! Max. length of item in bytes


!
!SIGNAL_RETURN --
!       Signal the given arguments and then return the first parameter.
!

Signal_return (status) [] =
        BEGIN
        signal (status, %remaining);
        return (status);
        END%,



!
!PERFORM MACRO --
!       This renames the RETURN_IF_ERROR macro to be the PERFORM macro.
!

PERFORM (COMMAND) = RETURN_IF_ERROR (COMMAND)%,         ! *** HACK


!
!EXPAND FAO STRING
!       Expand an FAO directive and yeild the address of a descriptor
!       of the resultant buffer.

        XFAO (DESC) =

                BEGIN
                EXTERNAL ROUTINE LIB$SYS_FAO: ADDRESSING_MODE (GENERAL);
                LOCAL   $$buffer:       vector [512, byte];
                LOCAL   $$buffdesc:     vector [2, long];

                $$buffdesc [0] = 512;           ! Initialize descriptor length
                $$buffdesc [1] = $$buffer;      ! Initialize descriptor address

                signal_if_error (lib$sys_fao (
                        desc,                   ! Control string address
                        $$buffdesc [0],         ! Resultant length
                        $$buffdesc              ! Buffer descriptor
                %IF %LENGTH GTR 1  %THEN , %REMAINING %FI
                        ));
                $$buffdesc
                END%,
```

```
        XFAOL (DESC, LIST) =

                BEGIN
                EXTERNAL ROUTINE LIB$SYS_FAOL: ADDRESSING_MODE (GENERAL);
                LOCAL   $$buffer:       vector [512, byte];
                LOCAL   $$buffdesc:     vector [2, long];

                $$buffdesc [0] = 512;           ! Initialize descriptor length
                $$buffdesc [1] = $$buffer;      ! Initialize descriptor address

                signal_if_error (lib$sys_faol (
                        desc,                   ! Control string address
                        $$buffdesc [0],         ! Resultant length
                        $$buffdesc,             ! Buffer descriptor
                        list                    ! Arguement list
                        ));
                $$buffdesc
                END%,


!
! CLI PARSING MACROS --
!       Determine if a command line entity is present or get its value
!

GET_PRESENT (DESC) =
        BEGIN
        EXTERNAL ROUTINE CLI$PRESENT: ADDRESSING_MODE (GENERAL);
        CLI$PRESENT (DESC)
        END%,

PRESENT (QUAL_NUMB) =
        BEGIN
        EXTERNAL QUALIFIERS: BITVECTOR [64];
        .QUALIFIERS [QUAL_NUMB]
        END%,

GET_VALUE (STRING, DESC) =
        BEGIN
        EXTERNAL ROUTINE CLI$GET_VALUE: ADDRESSING_MODE (GENERAL);
        CLI$GET_VALUE (AD (STRING), DESC)
        END%,

!
!ATTRIBUTE DEFINITIONS
!

        BOLD            = SCR$M_BOLD%,
        REVERSE         = SCR$M_REVERSE%,
        BLINK           = SCR$M_BLINK%,
        UNDERLINE       = SCR$M_UNDERLINE%,
```

```
!
!SET OUTPUT MACRO --
!       This macro establishes an output stream through the screen package.
!

SET_OUTPUT (STREAM, FILENAME, USERSUB, ARGUEMENT, PREVIOUS) =
        BEGIN
        EXTERNAL ROUTINE SCR$SET_OUTPUT: ADDRESSING_MODE (GENERAL);
        SIGNAL_IF_ERROR (SCR$SET_OUTPUT (
                %IF %NULL (STREAM)      %THEN 1 %ELSE STREAM    %FI,
                %IF %NULL (FILENAME)    %THEN 0 %ELSE FILENAME  %FI,
                %IF %NULL (USERSUB)     %THEN 0 %ELSE USERSUB   %FI,
                %IF %NULL (ARGUEMENT)   %THEN 0 %ELSE ARGUEMENT %FI,
                %IF %NULL (PREVIOUS)    %THEN 0 %ELSE PREVIOUS  %FI
                        ));
        END%,


!
!SCREEN MACRO --
!       This macro invokes the screen package to determine output
!       characteristics.
!

SCREEN_INFO (BUFFER) =
        BEGIN
        EXTERNAL ROUTINE SCR$SCREEN_INFO: ADDRESSING_MODE (GENERAL);
        SIGNAL_IF_ERROR (SCR$SCREEN_INFO (BUFFER));
        END%,


SCREEN (ARG) =
        BEGIN
        EXTERNAL SCREEN_CHAR: BBLOCK [SCR$K_LENGTH];
        .SCREEN_CHAR [
                %IF %IDENTICAL (ARG, FLAGS)     %THEN SCR$L_FLAGS %FI
                %IF %IDENTICAL (ARG, WIDTH)     %THEN SCR$W_WIDTH %FI
                %IF %IDENTICAL (ARG, LENGTH)    %THEN SCR$W_PAGESIZE %FI
                %IF %IDENTICAL (ARG, TYPE)      %THEN SCR$B_DEVTYPE %FI
        ] END%,


!
!SET CURSOR --
!

SET_CURSOR (LINE, COLUMN) =
        BEGIN
        EXTERNAL ROUTINE SCR$SET_CURSOR: ADDRESSING_MODE (GENERAL);
        SIGNAL_IF_ERROR (SCR$SET_CURSOR (LINE, COLUMN))
        END%,


!
!SET SCROLL --
```

```
!       Establish a scrolling region
!

SET_SCROLL (TOP, BOTTOM) =
        BEGIN
        EXTERNAL ROUTINE SCR$SET_SCROLL: ADDRESSING_MODE (GENERAL);
        SIGNAL_IF_ERROR (SCR$SET_SCROLL (
                        TOP
                %IF %LENGTH GTR 1 %THEN , %FI
                        BOTTOM))
        END%,



!
!ERASE SCREEN --
!

ERASE_PAGE (LINE, COLUMN) =
        BEGIN
        EXTERNAL ROUTINE SCR$ERASE_PAGE: ADDRESSING_MODE (GENERAL);
        SIGNAL_IF_ERROR (SCR$ERASE_PAGE (
                %IF %NULL (LINE) %THEN 1 %ELSE LINE %FI,
                %IF %NULL (COLUMN) %THEN 1 %ELSE COLUMN %FI
                ))
        END%,



!
!ERASE LINE--
!

ERASE_LINE (LINE, COLUMN) =
        BEGIN
        EXTERNAL ROUTINE SCR$ERASE_LINE: ADDRESSING_MODE (GENERAL);
        SIGNAL_IF_ERROR (SCR$ERASE_LINE (LINE, COLUMN))
        END%,



!
!WRITE TO SCREEN --
!       Output a string to the screen with associated attributes at
!       indicated cursor position.  Do not append carriage control.
!

        WRITE_AT (DESC, LINE, COLUMN, ATTR) =
                BEGIN
                EXTERNAL ROUTINE SCR$PUT_SCREEN: ADDRESSING_MODE (GENERAL);
                SIGNAL_IF_ERROR (SCR$PUT_SCREEN (
                        DESC,
                        LINE,
                        COLUMN,
                        %IF %NULL (ATTR) %THEN 0 %ELSE ATTR %FI
                        ))
```

```
                END%,

!
!WRITE LINE TO SCREEN --
!       Output a string to the screen with associated attributes,
!       scroll the indicated number of LINES, and append a carriage return.
!

        WRITE_LINE (DESC, LINES, ATTR) =
                BEGIN
                EXTERNAL ROUTINE SCR$PUT_LINE: ADDRESSING_MODE (GENERAL);
                SIGNAL_IF_ERROR (SCR$PUT_LINE (
                        DESC,
                        %IF %NULL (LINES) %THEN 1 %ELSE LINES %FI,
                        %IF %NULL (ATTR) %THEN 0 %ELSE ATTR %FI
                        ))
                END%,



!
! WRITE FAO STRING TO SCREEN --
!       Write a STRING to the screen at the given line and
!       column with no attributers after first processing it
!       through FAO.

        WRITE_FAO_AT (DESC,LINE,COLUMN) =

                WRITE_AT (
                        XFAO (DESC
                             %IF %LENGTH GTR 3 %THEN , %REMAINING %FI
                             ),
                        LINE,
                        COLUMN,
                        0)%,

!
! GET INPUT
!

GET_REPLY (REPLY, PROMPT, LENGTH) =
        BEGIN
        EXTERNAL ROUTINE SCR$GET_SCREEN: ADDRESSING_MODE (GENERAL);
        EXTERNAL LITERAL
            LIB$_INPSTRTRU;

        LOCAL
            STATUS;

        %IF %NULL (REPLY) %THEN
                LOCAL   $$TEMP,
                        $$TEMPDESC: VECTOR [2];
                $$TEMPDESC [0] = 4;
                $$TEMPDESC [1] = $$TEMP;
```

```
        %FI
        STATUS = SCR$GET_SCREEN (
                %IF %NULL (REPLY) %THEN $$TEMPDESC %ELSE REPLY %FI,
                PROMPT,
                LENGTH);
        IF NOT .STATUS AND ( .STATUS NEQU LIB$_INPSTRTRU )
        THEN
            BEGIN
            SIGNAL( .STATUS );
            RETURN .STATUS;
            END;
        END%,


!
!SET AND FLUSH BUFFER
!

SET_BUFFER (BUFFER) =
        BEGIN
        EXTERNAL ROUTINE SCR$SET_BUFFER: ADDRESSING_MODE (GENERAL);
        SIGNAL_IF_ERROR (SCR$SET_BUFFER (BUFFER))
        END%,

PUT_BUFFER (BUFFER) =
        BEGIN
        EXTERNAL ROUTINE SCR$PUT_BUFFER: ADDRESSING_MODE (GENERAL);
        SIGNAL_IF_ERROR (SCR$PUT_BUFFER (BUFFER))
        END%,



!
!LOOKUP MACRO --
!       This macro invokes lib$lookup_key and, if the lookup fails,
!       signals the user with the status and the failed value and
!       returns to the caller.
!

LOOKUP (KEY, TABLE, RESULT) =
        BEGIN
        EXTERNAL ROUTINE LIB$LOOKUP_KEY: ADDRESSING_MODE (GENERAL);
        LOCAL STATUS;
        IF NOT (STATUS = LIB$LOOKUP_KEY (KEY, TABLE, RESULT))
        THEN SIGNAL_RETURN (MSG$_SYNTAX, 1, KEY);
        END;%,

!
! THIS RENAMES THE $BYTEOFFSET MACRO TO BE $BOFF FOR BREVITY
!

$BOFF (arg) = $BYTEOFFSET (arg)%;       ! Make a shorter name
```

DEFINE INTERNAL STRUCTURES

```
!----------------------------------------------------------------------------+
!                        DEFINE  MESSAGE  CODES                              !
!----------------------------------------------------------------------------+

$SHR_MESSAGES (MSG,159,                    ! COMMON I/O AND MISC. MESSAGES

!       ********     ************             ***************
!       * NAME *     * SEVERITY *             * DESCRIPTION *
!       ********     ************             ***************

        (SEARCHFAIL,    ERROR),            !  -Error while searching for file
        (OPENIN,        ERROR),            !  -Unable to open or connect to input
        (READERR,       ERROR),            !  -Error while reading input
        (CLOSEIN,       ERROR),            !  -Unable to close output
        (OPENOUT,       ERROR),            !  -Unable to create, open, or connect
                                           !     to output
        (WRITEERR,      ERROR),            !  -Error while writing output
        (CLOSEOUT,      ERROR),            !  -Unable to close output
        (SYNTAX,        SEVERE),           !  -Parse failure
        );
```

```
!----------------------------------------------------------------------------
!                       EQUATED  SYMBOLS
!----------------------------------------------------------------------------

LITERAL

!
!FLAGS AND MISCELLANEOUS VALUES --
!

        COLUMNS_PER_GROUP = 15,         ! Bar graph column grouping factor
        REC_PREFIX        = 8,          ! Size of data prefixed to record
        ACCSK_UNKNOWN     = 0,          ! Reserve the value 0 for unknown types
        NEGATOR           = '-',        ! Define list negator charater

!
!QUALIFIER NUMBERS
! Define local bitnumbers for qualifers (also used as symbol table index
! numbers for summation).
!
        ACCOUNT           = 00,
        BAR_GRAPH         = 01,
        BEFORE            = 02,
        BINARY            = 03,
        USER              = 04,
        ENTRY             = 05,
        FULL              = 06,
        IDENT             = 07,
        IMAGE             = 08,
        JOB               = 09,
        LOG               = 10,
        ADDRESS           = 11,
        NODE              = 12,
        OWNER             = 13,
        OUTPUT            = 14,
        PRIORITY          = 15,
        PROCESS           = 16,
        QUEUE             = 17,
        REJECTED          = 18,
        REMOTE_ID         = 19,
        REPORT            = 20,
        SINCE             = 21,
        STATUS            = 22,
        SORT              = 23,
        SUMMARY           = 24,
        TERMINAL          = 25,
        TITLE             = 26,
        TYPE              = 27,
        UIC               = 28,
        QUAL_COUNT        = 29,
        EXPAND_DATE       = 31,         ! See /REPORT parsing
        UIC_GROUP         = 32,
        UIC_MEMBER        = 33,
```

```
        SUMMATION_TABLE = 63,           ! Must be different than above numbers.

!
!SUMMATION TYPES --
! These numbers describes the various summation rules for fields
! in accounting records when /SUMMARY is invoked
!
        SUM_TYPE_ADD    = 0,            ! Simple longword addition
        SUM_TYPE_ADDX   = 1,            ! Extended longword addition
        SUM_TYPE_PEAK   = 2,            ! Longword peak value recording
        SUM_TYPE_INCR   = 3,            ! Increment per occurence
        SUM_TYPE_TYPE   = 4,            ! Increment if type matches
        SUM_TYPE_ELAP   = 5,            ! Summarize connect time

        SUM_ENT_TYPE    = 0,            ! Type of summation entry
        SUM_ENT_ADR     = 1,            ! Address or other value
        SUM_ENT_BSIZE   = 2,            ! Accumulation bucket size in longwords
        SUM_ENT_FAO     = 3,            ! Address of FAO directive
        SUM_ENT_HDR1    = 4,            ! Address of 1st column header
        SUM_ENT_HDR2    = 5,            ! Address of 2nd column header


!
!MAXIMUM TABLE SIZES --
! Specify the maximum number of entries the user can make in qualifier
! value lists for /SORT and /SUMMARIZE.
!
    MAX_DEFAULT         = 30,           ! Default maximum
    MAX_SUM             = MAX_DEFAULT,  ! Maximum number of /SUMMARY values
    MAX_REPORT          = MAX_DEFAULT,  ! Maximum number of /REPORT values
    MAX_SORT            = 10;           ! Sort keys -- sort package limit
```

ACC

ACC
MAP

FORMAT
LIS

ACCDEF
REQ

ACCMSG
LIS

ACC
LIS

FILES
LIS