


```
CCCCCCCC  OOOOOO  NN      NN  VV      VV  FFFFFFFFFE  RRRRRRRR  TTTTTTTTTT
CCCCCCCC  OOOOOO  NN      NN  VV      VV  FFFFFFFFFE  RRRRRRRR  TTTTTTTTTT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RR      RR  TT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RR      RR  TT
CC        OO      OO  NNNN     NN  VV      VV  FFFFFFFF  RR      RR  TT
CC        OO      OO  NNNN     NN  VV      VV  FFFFFFFF  RR      RR  TT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RRRRRRRR  TT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RRRRRRRR  TT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RR      RR  TT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RR      RR  TT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RR      RR  TT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RR      RR  TT
CC        OO      OO  NN      NN  VV      VV  FFFFFFFF  RR      RR  TT
CCCCCCCC  OOOOOO  NN      NN  VV      VV  FFFFFFFFFE  RRRRRRRR  TTTTTTTTTT
CCCCCCCC  OOOOOO  NN      NN  VV      VV  FFFFFFFFFE  RRRRRRRR  TTTTTTTTTT
```

```
RRRRRRRR  FFFFFFFFFE  QQQQQQ
RRRRRRRR  FFFFFFFFFE  QQQQQQ
RR      RR  FF      FF  QQ      QQ
RR      RR  FF      FF  QQ      QQ
RR      RR  FF      FF  QQ      QQ
RRRRRRRR  FFFFFFFFFE  QQ      QQ
RRRRRRRR  FFFFFFFFFE  QQ      QQ
RR      RR  FF      FF  QQ      QQ
RR      RR  FF      FF  QQ      QQ
RR      RR  FF      FF  QQ      QQ
RR      RR  FF      FF  QQ      QQ
RR      RR  FFFFFFFFFE  QQQQ  QQ
RR      RR  FFFFFFFFFE  QQQQ  QQ
```

XTITLE 'VAX-11 CONVERT'

Version: 'V04-000'

```
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```

!++

Facility: VAX-11 CONVERT
 Abstract: Bliss require file for CONVERT and CONVERT/RECLAIM
 Environment:
 VAX/VMS Operating System

--

Author: Keith B Thompson Creation date: July-1980

Modified by:

- V03-005 JWT0185 Jim Teague 2-Jul-1984
 Add some literals used during FTN --> STM conversion.
- V03-004 KBT0471 Keith B. Thompson 21-Jan-1983
 Add RSZ error code
- V03-003 KBT0439 Keith B. Thompson 16-Dec-1982
 Add structure macros
- V03-002 KBT0377 Keith B. Thompson 22-Oct-1982
 Add conv\$_seq to error codes
- V03-001 KBT0344 Keith B. Thompson 4-Oct-1982
 Remove all linkage stuff. (Going in new module)

!****

MACRO

```
DESC_BLK =
  BLOCK [ 8,BYTE ]%,
DESCRIPTOR ( STRING ) =
  UPLIT ( %CHARCOUNT(STRING), UPLIT BYTE(STRING) )%,
ERRCHK ( SERVICE,ERROR ) =
  BEGIN
  LOCAL STATUS;
  IF ( NOT ( STATUS = SERVICE ) )
  THEN
    BEGIN
    SIGNAL( ERROR
           %IF %LENGTH GTR 2 %THEN ,%REMAINING
           %FI );
    RETURN .STATUS
    END;
  END%,
RET_ON_ERROR ( SERVICE ) =
  BEGIN
  LOCAL STATUS;
  IF ( NOT ( STATUS = SERVICE ) )
  THEN
    RETURN .STATUS
  END%,
SET      = 1%,
_CLEAR  = 0%;
```

STRUCTURE

```
! Structure definitions for reading a file of RFA's produced
! by SORT-32
!
RFA0_VECTOR [ I ; N ] =
  [ N*6 ]
  ( RFA0_VECTOR + I * 6 ) < 0,32,0 >,
RFA4_VECTOR [ I ; N ] =
  [ N*6 ]
  ( RFA4_VECTOR + 4 + I * 6 ) < 0,16,0 >;
```

Symbol definitions macros

MACRO

Define the error codes (They are actually defined in CONVMSG
but this is the next best thing)

DEFINE_ERROR_CODES =

EXTERNAL LITERAL
CONVERTS_FACILITY,
CONVS_FAO_MAX,

CONVS_BADBLK,
CONVS_BADLOGIC,
CONVS_BADSORT,
CONVS_CONFQUAL,
CONVS_CREATEDSTM,
CONVS_CREA_ERR,
CONVS_DELPRI,
CONVS_DUP,
CONVS_EXTN_ERR,
CONVS_FATALXC,
CONVS_FILLIM,
CONVS_IDX_LIM,
CONVS_ILL_KEY,
CONVS_ILL_VALUE,
CONVS_INP_FILES,
CONVS_INSVIRMEM,
CONVS_INVBKT,
CONVS_KEY,
CONVS_KEYREF,
CONVS_LOADIDX,
CONVS_NARG,
CONVS_NI,
CONVS_NOKEY,
CONVS_NOTIDX,
CONVS_NOTSEQ,
CONVS_NOWILD,
CONVS_ORDER,
CONVS_OPENEXC,
CONVS_OPENIN,
CONVS_OPENOUT,
CONVS_PAD,
CONVS_PLV,
CONVS_PROERR,
CONVS_PROL_WRT,
CONVS_READERR,
CONVS_RSK,
CONVS_RSZ,
CONVS_RTL,
CONVS_RTS,
CONVS_SEQ,
CONVS_UDF_BKS,
CONVS_UDF_BLK,
CONVS_VFC.

! Global literals

LITERAL

! Buffer Sizes

```
BLOCK_SIZE      = 512,  
ESA_BUF_SIZ     = 80,  
FILE_NAME_SIZ  = 80,  
REC_BUF_SIZ     = 512,  
RFA_BUF_SIZ    = 1536,  
RSA_BUF_SIZ    = 80,  
SORT_TMP_SIZ   = 12,  
VFC_BUF_SIZ    = 255,
```

! Maximum Index Level

```
MAX_IDX_LVL = 32,           ! NOTE: MAX_IDX_LVL < 33
```

! Routine Exit Codes

```
CONVS_SUCCESS = 1,  
CONVS_FAILURE = 0,
```

! Reclaim miscellaneous constants

```
RECLS_SUCCESS = 1,  
RECLS_FAILURE = 0,  
RECLS_FOREVER = 0,
```

! Exception Codes

```
EXCS_RMS = 0,  
EXCS_RTL = 1,  
EXCS_RTS = 2,  
EXCS_VFC = 3,  
EXCS_DUP = 4,  
EXCS_KEY = 5,  
EXCS_REX = 6,  
EXCS_RSZ = 7,  
EXCS_SEQ = 8,
```

! Used in FTN --> STM conversion

```
STM_BUF_SIZ = 32766,  
CONVSC_FTNPRN = 1,  
CONVSC_FTNSTM = 2,  
CONVSC_PRNFTN = 3;
```

MACRO

! foo

```
BYTE_S = 0.8.1%,  
BYTE_U = 0.8.0%,  
WORD_S = 0.16.1%,  
WORD_U = 0.16.0%,
```

LONG_S = 0.32,1%,
LONG_U = 0.32,0%,

! Macros needed to talk to sort

SORTKEYSW_TYPE = 0.0,16.0%,
SORTKEYSW_ORDER = 1.0,16.0%,
SORTKEYSW_START = 2.0,16.0%,
SORTKEYSW_LENGTH = 3.0,16.0%,

! Reclaim junk

KEYRSB_LENGTH = 0.0,8.0 %
KEYRSB_FRONT_COUNT = 1.0,8.0 %;

