


```

CCCCCCCC 000000 NN NN VV VV EEEEEEEEE RRRRRRR TTTTTTTTT
CCCCCCCC 000000 NN NN VV VV EEEEEEEEE RRRRRRR TTTTTTTTT
CC        00      00 NN NN VV VV EEEEEEEEE RR      RR TT
CC        00      00 NN NN VV VV EEEEEEEEE RR      RR TT
CC        00      00 NNNN NN VV VV EEEEEEEEE RR      RR TT
CC        00      00 NNNN NN VV VV EEEEEEEEE RR      RR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RRRRRRR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RRRRRRR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RRRRRRR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RR RR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RR RR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RR RR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RR RR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RR RR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RR RR TT
CC        00      00 NN NN NN VV VV EEEEEEEEE RR RR TT
CCCCCCCC 000000 NN NN VV VV EEEEEEEEE RRRRRRR TTTTTTTTT
CCCCCCCC 000000 NN NN VV VV EEEEEEEEE RRRRRRR TTTTTTTTT

```

```

RRRRRRRR EEEEEEEEE QQQQQQ
RRRRRRRR EEEEEEEEE QQQQQQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RR      RR EE      QQ      QQ
RRRRRRRR EEEEEEEEE QQ      QQ
RRRRRRRR EEEEEEEEE QQ      QQ
RR RR    EE      QQ      QQ
RR RR    EE      QQ      QQ
RR RR    EE      QQ      QQ
RR RR    EE      QQ      QQ
RR RR    EE      QQ      QQ
RR RR    EEEEEEEEE QQQQ  QQ
RR RR    EEEEEEEEE QQQQ  QQ

```

M

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
CONVTS_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_FATALExc,
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.

CONVERT.REQ;1

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CONVS_WRITEERR%;

: 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 %:

COBRMSBLO LIS	COBSPANC LIS	COBRESTVA LIS	COBSETSWI LIS	COBSPANC2 LIS	COBVECTOR LIS	CONVSHR MAP	CONUSHR MAP	CONUDEF MDL	CONVLINK REQ	CONV CALL LIS	CONVERT MAP	CONVERT REQ	RECLAIM MAP	ADKEY LIS
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