

FFFFFFFFFFFFFF	DDDDDDDDDDDD		LLL
FFFFFFFFFFFFFF	DDDDDDDDDDDD		LLL
FFFFFFFFFFFFFF	DDDDDDDDDDDD		LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFFFFFFFFFFFFF	DDD	DDD	LLL
FFFFFFFFFFFFFF	DDD	DDD	LLL
FFFFFFFFFFFFFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDD	DDD	LLL
FFF	DDDDDDDDDDDD		LLLLLLLLLLLLLLLL
FFF	DDDDDDDDDDDD		LLLLLLLLLLLLLLLL
FFF	DDDDDDDDDDDD		LLLLLLLLLLLLLLLL

```
FFFFFFFFF DDDDDDD LL UU UU TTTTTTTTT IIIII LL
FFFFFFFFF DDDDDDD LL UU UU TTTTTTTTT IIIII LL
FF DD DD LL UU UU TTT TT IIII LL
FF DD DD LL UU UU TTT TT IIII LL
FF DD DD LL UU UU TTT TT IIII LL
FF DD DD LL UU UU TTT TT IIII LL
FFFFFFFFF DD DD LL UU UU TTT TT IIII LL
FFFFFFFFF DD DD LL UU UU TTT TT IIII LL
FF DD DD LL UU UU TTT TT IIII LL
FF DD DD LL UU UU TTT TT IIII LL
FF DD DD LL UU UU TTT TT IIII LL
FF DD DD LL UU UU TTT TT IIII LL
FF DDDDDDD LLLLLLLLL UUUUUUUU TTT IIIII LLLLLLLLL .....
FF DDDDDDD LLLLLLLLL UUUUUUUU TTT IIIII LLLLLLLLL .....
```

```
RRRRRRR EEEEEEEEE QQQQQQ
RRRRRRR EEEEEEEEE QQQQQQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RRRRRRR EEEEEEEE QQ QQ
RRRRRRR EEEEEEEE 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
```

%TITLE 'VAX-11 FDL Utilities'

Version: 'V04-000'

```
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++

Facility: VAX-11 RMS FDL Utilities  
Environment: VAX/VMS Operating System  
Abstract: FDL Utilities Require file

--

Author: Keith B Thompson Created: Sometime-1981

## Modified By:

V03-003	KFH0002	Ken Henderson	2 Dec 1982
	Added GENTAB macro		
V03-002	KFH0001	Ken Henderson	19 Oct 1982
	Added INVBLK error code		
V03-001	KBT0031	Keith Thompson	31-Mar-1982
	Add invdatim error code		

\*\*\*\*

MACRO

GENTAB ( SEC, FAO, FULL, DTYPE, WHICH, BTYPE, BOFF ) =

```
[ %NAME ( 'FDL$C_',SEC ), FDL$V_SEC_FAO ] = UPLIT BYTE ( %ASCIC FAO ),
[ %NAME ( 'FDL$C_',SEC ), FDL$V_FULL_ONLY ] = FULL,
[ %NAME ( 'FDL$C_',SEC ), FDL$V_DATA_TYPE ] = %NAME ( 'FDL$C_',DTYPE ),
[ %NAME ( 'FDL$C_',SEC ), FDL$V_WHICH_PRI ] = %NAME ( 'FDL$C_',WHICH ),
[ %NAME ( 'FDL$C_',SEC ), FDL$V_BLK_TYPE ] = %NAME ( 'FDL$C_',BTYPE ),
[ %NAME ( 'FDL$C_',SEC ), FDL$V_SEC_BOFF ] =
  $BYTEOFFSET ( %NAME ( BTYPE,'$',BOFF ) ),
[ %NAME ( 'FDL$C_',SEC ), FDL$V_SEC_POS ] =
  $BITPOSITION ( %NAME ( BTYPE,'$',BOFF ) ) %,
```

```
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%;
```

```
! Linkages
```

```
LINKAGE JSB_LINK = JSB;
```

```
! Global literals
```

```
LITERAL
```

```
! Buffer Sizes
```

```
KEYNAME_LENGTH = 32,
```

BLOCK\_SIZE = 512,  
ESA\_BUF\_SIZ = NAM\$C\_MAXRSS,  
RSA\_BUF\_SIZ = NAM\$C\_MAXRSS,  
REC\_BUF\_SIZ = 512,  
BUCKET\_DEFAULT = 2;

```
! FDL Routines signaling codes
```

```
! MACRO
```

```
DEFINE_ERROR_CODES =
```

```
EXTERNAL LITERAL
```

```
FDLS_FACILITY,  
FDLS_FAO_MAX,
```

```
FDLS_ABKW,  
FDLS_ABPRKW,  
FDLS_CREATE,  
FDLS_CREATED,  
FDLS_CREATEDSTM,  
FDLS_FDLERROR,  
FDLS_ILL_ARG,  
FDLS_INSVIRMEM,  
FDLS_INVBLK,  
FDLS_INVDATIM,  
FDLS_MULPRI,  
FDLS_MULSEC,  
FDLS_NOQUAL,  
FDLS_NULLPRI,  
FDLS_OPENFDL,  
FDLS_OUTORDER,  
FDLS_OPENOUT,  
FDLS_WRITEERR,  
FDLS_READERR,  
FDLS_RFLOC,  
FDLS_TITLE,  
FDLS_SYNTAX,  
FDLS_VALPRI,  
FDLS_UNQUAKW,  
FDLS_UNPRKW,  
FDLS_UNSECKW,  
FDLS_WARNING%;
```

```
! FDL$PARSE junk
```

```
MACRO
```

```
TPARSE_ARGS =  
  BUILTIN AP;  
  BIND TPARSE_BLOCK = AP : REF BLOCK [ .BYTE ]; %;
```

```
LITERAL FABSC_STR = 1;
```

```
LITERAL
```

```
FDL$C_PRI_BLK_SIZE = 2;  
FDL$C_SEC_BLK_SIZE = 3;
```

```
FIELD
```

```
PRITAB_FIELDS =
```

```
SET  
FDL$V_PRI_FAO = [ 0,0,32,0 ],  
FDL$V_IDENT_STR = [ 1,0,1,0 ],  
FDL$V_NUM_ATTACH = [ 1,1,1,0 ],  
FDL$V_PRI_FILL = [ 1,2,6,0 ],  
FDL$V_PRI_SPARE = [ 1,8,8,0 ],  
FDL$V_PRI_BOFF = [ 1,16,16,0 ]  
TES,
```

```
SECTAB_FIELDS =
```

```
SET  
FDL$V_SEC_FAO = [ 0,0,32,0 ],  
FDL$V_FULC_ONLY = [ 1,0,1,0 ],  
FDL$V_FILL = [ 1,1,7,0 ],  
FDL$V_DATA_TYPE = [ 1,8,8,0 ],  
FDL$V_WHICH_PRI = [ 1,16,8,0 ],  
FDL$V_BLK_TYPE = [ 1,24,8,0 ],  
FDL$V_SEC_BOFF = [ 2,0,16,0 ],  
FDL$V_SEC_POS = [ 2,16,16,0 ]  
TES;
```

