FORRTL

```
FFFFFFFFFF    000000    RRRRRRRR   EEEEEEEEEE   RRRRRRRR    RRRRRRRR
FFFFFFFFFF    000000    RRRRRRRR   EEEEEEEEEE   RRRRRRRR    RRRRRRRR
FF           00    00   RR     RR  EE           RR     RR   RR     RR
FF           00    00   RR     RR  EE           RR     RR   RR     RR
FF           00    00   RR     RR  EE           RR     RR   RR     RR
FFFFFFFF     00    00   RRRRRRRR   EEEEEEE      RRRRRRRR    RRRRRRRR
FFFFFFFF     00    00   RRRRRRRR   EEEEEEE      RRRRRRRR    RRRRRRRR
FF           00    00   RR  RR     EE           RR  RR      RR  RR
FF           00    00   RR   RR    EE           RR   RR     RR   RR
FF           00    00   RR    RR   EE           RR    RR    RR    RR      ....
FF           00    00   RR    RR   EE           RR    RR    RR    RR      ....
FF           000000     RR     RR  EEEEEEEEEE   RR     RR   RR     RR     ....
FF           000000     RR     RR  EEEEEEEEEE   RR     RR   RR     RR     ....


   SSSSSSSS   DDDDDDD    LL
   SSSSSSSS   DDDDDDD    LL
SS            DD    DD   LL
SS            DD    DD   LL
SS            DD    DD   LL
SS            DD    DD   LL
   SSSSSS     DD    DD   LL
   SSSSSS     DD    DD   LL
         SS   DD    DD   LL
         SS   DD    DD   LL
         SS   DD    DD   LL
         SS   DD    DD   LL
SSSSSSSS      DDDDDDD    LLLLLLLLLL
SSSSSSSS      DDDDDDD    LLLLLLLLLL
```

```
{ REQUIRE file for FORTRAN  error codes (STS$V_CODE)
{ Filename: FORERR.SDL Edit: SBL2001
{
{********************************************************************
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{********************************************************************
{
{
{ Author: T. Hastings
{ [Previous edit history removed.  SBL 11-Nov-1980]
{ 1-001 - Add copyright notice and change version number.  JBS 16-NOV-78
{ 1-002 - Correct minor errors in the maintenance note.  JBS 16-NOV-78
{ 1-003 - Change reference to RTLMSG to be FORMSG.  JBS 02-JAN-1979
{ 1-004 - Added error numbers 49-58 for ISAM.  SBL 09-Feb-1979
{ 1-005 - Remove error 58.  Change name of error 36 and 50.  SBL 6-Apr-79
{ 1-006 - Change FOR$K_RECSPEERR to FOR$K_INCRECTYP.  SBL 27-Apr-79
{ 1-007 - Change FOR$K_INVKEYCHG to FOR$K_INCKEYCHG,  SBL 2-May-1979
{ 1-008 - Make changes to agree with -11 F4P.  SBL 8-May-1979
{ 1-009 - Rename FOR$K_MORONEREC to FOR$K_TOOMANREC.  SBL 21-Sept-1979
{ 1-010 - Add errors 17-19 for NAMELIST.  SBL 11-Nov-1980
{ 2-001 - Convert to SDL.  SBL 23-AUG-1982


{+
{ Define short valued symbols of the form FOR$K_symbol which are used in calls to
{ the FORTRAN error Procedure of the form:
{
{       FOR$$SIGNAL (FOR$K_error_number)
{
{ which are changed into 32-bit VAX-11 condition values
{ of the form FOR$_error_number
{ before calling LIB$SIGNAL (FOR$_error_number)
{
{ In macro, the symbols may be defined either as .EXTRNs or $FORERR
{       $FORERR
{ will define all FORTRAN error numbers.
```

```
{*****************************************************
{
{ MAINTENANCE NOTE:
{
{        COM$$ERRSET_TST module (in file COMSETST.B32) contains the F4P/11
{         compatibility error handler and has a table for all errors.
{         When new error numbers are added that table may need modification.
{
{*****************************************************
{-


MODULE $FORERR;

{ The following messages may not be the actual text:
{ See FORMSG.MSG for the correct text

CONSTANT
    FAC_NO      EQUALS 24  PREFIX FOR TAG $K,   { FORTRAN facility number (STS$W_FAC_NO)
    NOTFORSPE   EQUALS 1   PREFIX FOR TAG $K;   { NOT A FORTRAN-SPECIFIC ERROR
                                                { Used as a catch-all error number
                                                { for error other than FOR$ and MTH$


CONSTANT (
    SYNERRNAM,    { SYNTAX ERROR IN NAMELIST INPUT
    TOOMANVAL,    { TOO MANY VALUES IN NAMELIST INPUT
    INVREFVAR,    { INVALID REFERENCE TO VARIABLE IN NAMELIST
    REWERR,       { REWIND ERROR
    DUPFILSPE,    { DUPLICATE FILE SPECIFICATIONS
    INPRECTOO,    { INPUT RECORD TOO LONG
    BACERR,       { BACKSPACE ERROR
    ENDDURREA,    { END-OF-FILE DURING READ
    RECNUMOUT,    { RECORD NUMBER OUTSIDE RANGE
    OPEDEFREQ,    { OPEN OR DEFINEFILE REQUIRED TO SPECIFY DIRECT ACCESS
    TOOMANREC,    { TOO MANY RECORDS IN I/O STATEMENT
    CLOERR,       { CLOSE ERROR
    FILNOTFOU,    { FILE NOT FOUND
    OPEFAI,       { OPEN FAILURE
    MIXFILACC,    { MIXED FILE ACCESS MODES
    INVLOGUNI,    { INVALID LOGICAL UNIT NUMBER
    ENDFILERR,    { ENDFILE ERROR
    UNIALROPE,    { UNIT ALREADY OPEN
    SEGRECFOR,    { SEGMENTED RECORD FORMAT ERROR
    ATTACCNON,    { ATTEMPT TO ACCESS NON-EXISTENT RECORD
    INCRECLEN,    { INCONSISTENT RECORD LENGTH
    ERRDURWRI,    { ERROR DURING WRITE
    ERRDURREA,    { ERROR DURING READ
    RECIO_OPE,    { RECURSIVE I/O OPERATION
    INSVIRMEM,    { INSUFFICIENT VIRTUAL MEMORY
    NO_SUCDEV,    { NO SUCH DEVICE
    FILNAMSPE,    { FILE NAME SPECIFICATION ERROR
    INCRECTYP,    { INCONSISTENT RECORD TYPE
    KEYVALERR,    { KEYWORD VALUE ERROR IN OPEN STATEMENT
    INCOPECLO,    { INCONSISTENT OPEN/CLOSE PARAMETERS
    WRIREAFIL,    { WRITE TO READONLY FILE
```

```
    INVARGFOR,   { INVALID ARGUMENT TO FORTRAN RUN-TIME LIBRARY
    INVKEYSPE,   { INVALID KEY SPECIFICATION
    INCKEYCHG,   { INCONSISTENT KEY CHANGE OR DUPLICATE KEY
    INCFILORG,   { INCONSISTENT FILE ORGANIZATION
    SPERECLOC,   { SPECIFIED RECORD LOCKED
    NO_CURREC,   { NO CURRENT RECORD
    REWRITERR,   { REWRITE ERROR
    DELERR,      { DELETE ERROR
    UNLERR,      { UNLOCK ERROR
    FINERR,      { FIND ERROR
    ,            { Unused error 58
    LISIO_SYN,   { LIST-DIRECTED I/O SYNTAX ERROR
    INFFORLOO,   { INFINITE FORMAT LOOP
    FORVARMIS,   { FORMAT/VARIABLE-TYPE MISMATCH
    SYNERRFOR,   { SYNTAX ERROR IN FORMAT
    OUTCONERR,   { OUTPUT CONVERSION ERROR
    INPCONERR,   { INPUT CONVERSION ERROR
    ,            { Unused error 65
    OUTSTAOVE,   { OUTPUT STATEMENT OVERFLOWED RECORD
    INPSTAREQ,   { INPUT STATEMENT REQUIRED TOO MUCH DATA
    VFEVALERR    { VARIABLE FORMAT EXPRESSION VALUE ERROR
    ) EQUALS 17 INCREMENT 1 PREFIX FOR TAG $K;

{+
{ Define arithmetic trap error numbers, even though signaled as SS$_ARITH
{ Therefore there is no corresponding error message in FORMSG.MDL for these:
{-

CONSTANT (
    INTOVF,      { INTEGER OVERFLOW
    INTZERDIV,   { INTEGER ZERO DIVIDE
    FLOOVE,      { FLOATING OVERFLOW
    FLOZERDIV,   { FLOATING ZERO DIVIDE
    FLOUND,      { FLOATING UNDERFLOW
    ,            { Unused error 75
    DECSTROVE,   { DECIMAL STRING OVERFLOW
    ARRREFOUT    { ARRAY REFERENCE OUTSIDE ARRAY
    ) EQUALS 70 INCREMENT 1 PREFIX FOR TAG $K;

{ End of arithmetic trap error codes


CONSTANT
    ADJARRDIM    EQUALS 93 PREFIX FOR TAG $K,      { ADJUSTABLE ARRAY DIMENSION ERROR
    MAX_ERR      EQUALS 93 PREFIX FOR TAG $K;      { maximum error number (NOT AN ERROR!!!)

END_MODULE $FORERR;

{ End of file FORERR.SDL
```

COMASSIGN
LIS

FORIOSDEF   FORFMT   FOROPN   COMR50ASC
SDL   REQ   REQ   LIS

COMERRTST
LIS

FDLTRFVEC
LIS

FORPAR   FORLIB   COMERRSET
SDL   REQ   LIS

COMIRAD50
LIS

FORPROLOG
REQ

FORRTL   FORRCE   FORMACROS
                                 SDL   REQ

FORRTL   COMFDBSET
MAP   LIS

FORERR   FORDEF
SDL   FOR

COMEST   FORNML   COMCLOSE
REQ   REQ   LIS