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[ IDENT ('V04-000'),
( ++
*****
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FACILITY:      VAX/VMS EDF (EDIT/FDL) UTILITY
ABSTRACT:     This facility is used to create, modify, and optimize
               FDL specification files.
ENVIRONMENT:  NATIVE/USER MODE
AUTHOR:       Ken F. Henderson Jr.
CREATION DATE: 27-Mar-1981
MODIFIED BY:

V03-008 KFH0008      Ken Henderson      8 Aug 1983
           Changes for seperate compilation.

V03-007 KFH0007      Ken Henderson      14 Apr 1983
           Changed EDF$TERM_SETUP function
           value from BYTE to INTEGER.

V03-006 KFH0006      Ken Henderson      22 Nov 1982
           Removed obsolete SYS$routine
           definitions. (now from starlet.pen)

V03-005 KFH0005      Ken Henderson      11 Oct 1982
           Added support for Access, ACL,
           Connect, Journal, Sharing primaries.
           Changed FDL$$PARSE to FDL$PARSE.

```

EDFEXTERN  
V04-000

L 13  
16-Sep-1984 00:45:41  
5-Sep-1984 13:36:55

VAX-11 Pascal V2.4-277  
DISK\$VMSMASTER:[EDF.SRC]EDFEXTERN.PAS;1 (1) Page 2

Source Listing

Modified FDL\$CREATE.

V03-004	KFH0004	Ken Henderson	22 Sept 1982
	Added definition of LIB\$WAIT;		
	Removed definition of FOR\$SECNDS.		
V03-003	KFH0003	Ken Henderson	11 August 1982
	Removed reference to CLISEND_PARSE.		
V03-002	KFH0002	Ken Henderson	2 April 1982
	Added ISECNUM_PTR to call to		
	FDL\$GLOBAL.		
V03-001	KFH0001	Ken Henderson	23-Mar-1982
	Modified LIB\$OUTPUT_HELP to fix		
	FT2 QAR 381		

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-- }

EDFEXTERN  
V04-000

Source Listing

M 13  
16-Sep-1984 00:45:41  
5-Sep-1984 13:36:55

VAX-11 Pascal V2.4-277  
DISK\$VMSMASTER:[EDF.SRC]EDFEXTERN.PAS;1 (2) Page 3

```
0077 ENVIRONMENT ('LIBS:EDFEXTERN'),
0078
0079 INHERIT (
0080
0081 'SYSSLIBRARY:STARLET',
0082 'SHRLIBS:FDLPARDEF',
0083 'LIBS:EDFSTRUCT',
0084 'LIBS:EDFCNST',
0085 'LIBS:EDFTYPE',
0086 'LIBS:EDFVAR'
0087
0088 )]
0089
0090 MODULE EDFEXTERN;
```

```
0092      ( ++
0093      EXTERNAL ROUTINE DECLARATIONS:
0094
0095      The following functions and procedures are part of the VMS RunTimeLibrary.
0096      They are documented in the RIL Reference Manual and the Utilities Reference
0097      Manual.
0098      -- }
0099
0100      ( +
0101      These are the 'Terminal Independent Screen Procedures'.
0102      - )
0103
0104      [ASYNCHRONOUS] FUNCTION LIB$PUT_LINE (
0105
0106          %DESCR      TEXTX      : [VOLATILE] VARYING [A] OF CHAR;
0107          VAR LINE_ADV : [VOLATILE] INTEGER;
0108          FLAGS       : [VOLATILE] INTEGER
0109
0110          ) : INTEGER; EXTERNAL;
0111
0112      FUNCTION LIB$ERASE_LINE (
0113
0114          VAR LINE,
0115              COLUMN      : INTEGER
0116
0117          ) : INTEGER; EXTERN;
0118
0119      FUNCTION LIB$ERASE_PAGE (
0120
0121          VAR LINE,
0122              COLUMN      : [VOLATILE] INTEGER
0123
0124          ) : INTEGER; EXTERN;
0125
0126      FUNCTION LIB$SET_CURSOR (
0127
0128          VAR LINE,
0129              COLUMN      : [VOLATILE] INTEGER
0130
0131          ) : INTEGER; EXTERN;
0132
0133      [ASYNCHRONOUS] FUNCTION LIB$SET_SCROLL (
0134
0135          VAR START_LINE,
0136              END_LINE    : [VOLATILE] INTEGER
0137
0138          ) : INTEGER; EXTERN;
0139
0140      FUNCTION LIB$PUT_SCREEN (
0141
0142          %STDESCR TEXTX      : PACKED ARRAY [L..U:INTEGER] OF CHAR;
0143          VAR LINE,
0144              COLUMN      : INTEGER
0145
0146          ) : INTEGER; EXTERN;
0147
0148      [UNBOUND,EXTERNAL] FUNCTION LIB$PUT_OUTPUT (
```

```
0149
0150      %STDESCR TEXTX      : PACKED ARRAY [L..U:INTEGER] OF CHAR
0151
0152      ) : INTEGER; EXTERNAL;
0153
0154 [UNBOUND,EXTERNAL] FUNCTION LIB$GET_INPUT (
0155
0156      %DESCR INPUT_TEXT  : VARYING [A] OF CHAR;
0157      %DESCR PROMPT_STR  : VARYING [B] OF CHAR;
0158      VAR LENGTH        : INTEGER
0159
0160      ) : INTEGER; EXTERNAL;
0161
0162 FUNCTION LIB$GET_SCREEN (
0163
0164      %DESCR INPUT_TEXT  : VARYING [A] OF CHAR;
0165      %DESCR PROMPT_STR  : VARYING [B] OF CHAR;
0166      VAR LENGTH        : INTEGER
0167
0168      ) : INTEGER; EXTERN;
0169
0170 FUNCTION LIB$SCREEN_INFO (
0171
0172      FLAGS              : SCR1$TYPE;
0173      DEV_TYPE           : INTEGER;
0174      LINE_WIDTH         : INTEGER;
0175      LINES_PER_PAGE     : INTEGER
0176
0177      ) : INTEGER; EXTERN;
0178
0179 FUNCTION LIB$DOWN_SCROLL : INTEGER; EXTERN;
0180
0181 { +
0182 The following is the famed "TPARSE" table-driven parsing routine.
0183 - }
0184 FUNCTION LIB$TPARSE (
0185
0186      VAR PARAM_BLK     : [VOLATILE] TPASTYPE;
0187      %IMMED STATE_TBL  : INTEGER;
0188      %IMMED KEY_TBL    : INTEGER
0189
0190      ) : INTEGER; EXTERN;
0191
0192 { +
0193 The following are general string handling routines.
0194 - }
0195
0196 PROCEDURE STR$UPCASE (
0197
0198      VAR DST           : [VOLATILE] DESCRIPTOR;
0199      VAR SRC           : [VOLATILE] DESCRIPTOR
0200
0201      ); EXTERN;
0202
0203 PROCEDURE STR$TRIM (
0204
0205      VAR DST           : [VOLATILE] DESCRIPTOR;
```

```
0206      %STDESCR SRC      : PACKED ARRAY [L..U:INTEGER] OF CHAR
0207      ); EXTERN;
0208
0209 [ASYNCHRONOUS] PROCEDURE STR$FREE1_DX (
0210      VAR DSC          : [/VOLATILE] DESCRIPTOR
0211      ); EXTERN;
0212
0213 [ASYNCHRONOUS] FUNCTION LIB$SCOPY_DXDX (
0214      SRC              : DESCRIPTOR;
0215      DST              : DESCRIPTOR
0216      ) : INTEGER; EXTERN;
0217
0218 FUNCTION OTS$SCOPY_DXDX (
0219      %STDESCR SRC      : PACKED ARRAY [L..U:INTEGER] OF CHAR;
0220      DST              : DESCRIPTOR
0221      ) : INTEGER; EXTERN;
0222
0223 FUNCTION OTS$CVT_TI_L (
0224      STR              : DESCRIPTOR;
0225      VAR NUM          : INTEGER
0226      ) : INTEGER; EXTERN;
0227
0228 FUNCTION LIB$DATE_TIME (
0229      %STDESCR DST      : PACKED ARRAY [L..U:INTEGER] OF CHAR
0230      ) : INTEGER; EXTERN;
0231
0232 { +
0233 This routine will set a bit field (SRC) in a location (BASE).
0234 - }
0235 [ASYNCHRONOUS] PROCEDURE LIB$INSV (
0236      SRC,
0237      POS          : LONG;
0238      SIZE         : BYTE;
0239      VAR BASE     : LONG
0240      ); EXTERN;
0241
0242 { +
0243 This routine will get a bit field from a location.
0244 - }
0245 [ASYNCHRONOUS] FUNCTION LIB$EXTZV (
0246      POS,
0247      SIZE,
0248      BASE          : LONG
0249      ) : LONG
0250
0251
0252
0253
0254
0255
0256
0257
0258
0259
0260
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0262
```



```
0263           ) : INTEGER; EXTERN;
0264
0265
0266 { +
0267 This routine does a schdwk/hiber to wait a specified length of time.
0268 - }
0269 [ASYNCHRONOUS] PROCEDURE LIB$WAIT (
0270
0271         SECONDS      : REAL
0272
0273 ); EXTERN;
0274
0275 { +
0276 This routine does our help processing for us.
0277 - }
0278 FUNCTION LBR$OUTPUT_HELP (
0279
0280         %IMMED PUT_PTR      : INTEGER;
0281         WIDTH                : LONG;
0282         %IMMED LINE         : LONG;
0283         %STDESCR LIBRARY    : PACKED ARRAY [L..U:INTEGER] OF CHAR;
0284         %IMMED FLAGS        : LONG;
0285         %IMMED GET_PTR      : INTEGER
0286
0287 ) : INTEGER; EXTERNAL;
0288
0289 { +
0290 These are used in error handling.
0291 - }
0292
0293 [ASYNCHRONOUS] FUNCTION LIB$MATCH_COND (
0294
0295         CONDVAL,
0296         COMPVAL      : INTEGER
0297
0298 ) : BOOLEAN; EXTERN;
0299
0300 PROCEDURE LIB$SIGNAL (
0301
0302         %IMMED CONDITION : INTEGER;
0303         %IMMED NUMARGS   : INTEGER;
0304         %IMMED ARG1      : INTEGER;
0305         %IMMED ARG2      : INTEGER
0306
0307 ); EXTERN;
0308
0309 PROCEDURE LIB$STOP (
0310
0311         %IMMED CONDITION : INTEGER;
0312         %IMMED NUMARGS   : INTEGER;
0313         %IMMED ARG1      : INTEGER;
0314         %IMMED ARG2      : INTEGER
0315
0316 ); EXTERN;
0317
0318 { +
0319 These are used to process the DCL command string.
```

```
0320 - )
0321
0322 FUNCTION CLISGET_VALUE (
0323
0324     %STDSCR SELECT      : PACKED ARRAY [L..U:INTEGER] OF CHAR;
0325     VAR RETURNED      : DESCRIPTOR
0326
0327     ) : INTEGER; EXTERN;
0328
0329 FUNCTION CLISPRESENT (
0330
0331     %STDSCR TEXTX      : PACKED ARRAY [L..U:INTEGER] OF CHAR
0332
0333     ) : INTEGER; EXTERN;
0334
0335
0336 { +
0337 The following is used to plot graphs on the terminal.
0338 - )
0339 PROCEDURE EDF$GRAPH (
0340
0341     %DESCR GRAPH_TYPE : INTEGER;
0342     %DESCR XY_ARRAY   : XY_PLOT_TYPE;
0343     CURRENT_INDEX,
0344     LAST_INDEX,
0345     Y_HIGH,
0346     Y_LOW,
0347     Y_INCR           : INTEGER;
0348     %STDSCR Y_LABEL  : PACKED ARRAY [L..U:INTEGER] OF CHAR;
0349     %DESCR COLOR_ARRAY : XY_PLOT_TYPE
0350
0351     ) : EXTERN;
0352
0353 { +
0354 The following is used to parse the input FDL file for storage into the
0355 database.
0356 - )
0357 FUNCTION FDL$PARSE (
0358
0359     FNM           : DESCRIPTOR;
0360     VAR FAB       : FAB_PTR;
0361     VAR RAB       : FAB_PTR;
0362     %REF FLG      : FDL2$TYPE
0363
0364     ) : INTEGER; EXTERN;
0365
0366 { +
0367 The following is used to deallocate the memory used by the RMS blocks
0368 which are allocated by FDL$PARSE.
0369 - )
0370 FUNCTION FDL$RELEASE (
0371
0372     FAB           : FAB_PTR;
0373     RAB           : FAB_PTR
0374
0375     ) : INTEGER; EXTERN;
0376
```

```
0377 { +
0378 The following is used to first parse an input FDL file and then create the
0379 RMS file specified by it.
0380 - )
0381 FUNCTION FDL$CREATE (
0382
0383         FDLNAM      : DESCRIPTOR;
0384         OUTNAM      : DESCRIPTOR;
0385         DFTNAM      : DESCRIPTOR;
0386         VAR RESNAM  : [VOLATILE] DESCRIPTOR;
0387         VAR FIDBLK  : [VOLATILE] FID;
0388         XREF FLAGS  : FDL2$TYPE
0389
0390         ) : INTEGER; EXTERN;
0391
0392 { +
0393 The following routines are used to interface to ITDRV.
0394 - )
0395 FUNCTION EDF$TERM_SETUP : INTEGER; EXTERN;
0396
0397 PROCEDURE EDF$RESET_TERM; EXTERN;
0398
0399 PROCEDURE EDF$CTRLCAST; EXTERN;
0400
0401 { +
0402 The following routines are in other modules of EDF.
0403 They were FORWARD declared before seperate compilation (Pascal V2) was used.
0404 - )
0405 [EXTERNAL] FUNCTION QUERY (OFFSET : INTEGER) : BOOLEAN; EXTERN;
0406
0407 [EXTERNAL] PROCEDURE POINT_AT_DEFINITION; EXTERN;
0408
0409 [ASYNCHRONOUS,EXTERNAL] PROCEDURE EDF$RESET_SCROLL; EXTERN;
0410
0411 [EXTERNAL] PROCEDURE INPUT_ANALYSIS_FILE; EXTERN;
0412
0413 [EXTERNAL] PROCEDURE SHOW_ALL_PRIMARYES; EXTERN;
0414
0415 [EXTERNAL] PROCEDURE SHOW_PRIMARY_SECTION (TEST : LINE_OBJECT); EXTERN;
0416
0417 [EXTERNAL] PROCEDURE SHOW_CUR_PRI_SEC (PLUS_VALUE : BOOLEAN); EXTERN;
0418
0419 [EXTERNAL] FUNCTION NATURAL_DEPTH : INTEGER; EXTERN;
0420
0421 END.
0422 {      End of file SRC$:EDFEXTERN.PAS      }
```



EDFEXTERN  
V04-000

Pascal Compilation Statistics

H 14  
16-Sep-1984 00:45:41  
5-Sep-1984 13:36:55

VAX-11 Pascal V2.4-277 Page 11  
DISK\$VMMASTER:[EDF.SRC]EDFEXTERN.PAS;1 (3)

COMMAND QUALIFIERS

PASCAL/MACHINE/NODEBUG/NOCHECK/LIS=LIS\$:EDFEXTERN/OBJ=OBJ\$:EDFEXTERN MSRC\$:EDFEXTERN

/CHECK=(NOBOUNDS, NOCASE\_SELECTORS, NOOVERFLOW, NOPPOINTERS, NOSUBRANGE)

/DEBUG=(NOSYMBOLS, NOTRACEBACK)

/ENVIRONMENT= \$255\$DUA28:[EDF.OBJ]EDFEXTERN.PEN;1

/LIST= \$255\$DUA28:[EDF.LIS]EDFEXTERN.LIS;1

/OBJECT= \$255\$DUA28:[EDF.OBJ]EDFEXTERN.OBJ;1

/NOCROSS\_REFERENCE /ERROR\_LIMIT=30 /NOG\_FLOATING /MACHINE\_CODE /NOOLD\_VERSION /OPTIMIZE /NOSTANDARD /WARNINGS

COMPILER INTERNAL TIMING

Phase	Faults	CPU Time	Elapsed Time
Initialization	71	00:00.4	00:01.9
Source Analysis	572	00:10.1	02:31.9
Source Listing	43	00:00.7	00:02.4
Tree Construction	0	00:00.0	00:00.0
Flow Analysis	0	00:00.0	00:00.0
Profit Analysis	0	00:00.0	00:00.0
Context Analysis	0	00:00.0	00:00.0
Name Packing	0	00:00.0	00:00.0
Code Selection	0	00:00.0	00:00.0
Final	92	00:00.7	00:01.9
TOTAL	780	00:11.9	02:38.2

COMPILATION STATISTICS

CPU Time: 00:11.9 (2130 Lines/Minute)  
Elapsed Time: 02:38.2  
Page Faults: 780  
Compilation Complete



0126 AH-BT13A-SE  
VAX/VMS V4.0

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