```
EEEEEEEEEEEEEEEE   DDDDDDDDDDD    FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE   DDDDDDDDDDD    FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE   DDDDDDDDDDD    FFFFFFFFFFFFFFFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEEEEEEEEEEE       DDD       DDD  FFFFFFFFFFF
EEEEEEEEEEEE       DDD       DDD  FFFFFFFFFFF
EEEEEEEEEEEE       DDD       DDD  FFFFFFFFFFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEE                DDD       DDD  FFF
EEEEEEEEEEEEEEEE   DDDDDDDDDDD    FFF
EEEEEEEEEEEEEEEE   DDDDDDDDDDD    FFF
EEEEEEEEEEEEEEEE   DDDDDDDDDDD    FFF
```

```
EEEEEEEEEE  DDDDDDD   FFFFFFFFFF   SSSSSSSS  TTTTTTTTTT  RRRRRRRR  UU      UU  CCCCCCCC  TTTTTTTTTT
EEEEEEEEEE  DDDDDDD   FFFFFFFFFF   SSSSSSSS  TTTTTTTTTT  RRRRRRRR  UU      UU  CCCCCCCC  TTTTTTTTTT
EE          DD    DD  FF         SS               TT    RR    RR  UU      UU  CC            TT
EE          DD    DD  FF         SS               TT    RR    RR  UU      UU  CC            TT
EE          DD    DD  FF         SS               TT    RR    RR  UU      UU  CC            TT
EE          DD    DD  FF         SS               TT    RR    RR  UU      UU  CC            TT
EEEEEEE     DD    DD  FFFFFFFF     SSSSSS          TT    RRRRRRRR  UU      UU  CC            TT
EEEEEEE     DD    DD  FFFFFFFF     SSSSSS          TT    RRRRRRRR  UU      UU  CC            TT
EE          DD    DD  FF                SS         TT    RR  RR    UU      UU  CC            TT
EE          DD    DD  FF                SS         TT    RR  RR    UU      UU  CC            TT
EE          DD    DD  FF                SS         TT    RR    RR  UU      UU  CC            TT
EE          DD    DD  FF                SS         TT    RR    RR  UU      UU  CC            TT
EEEEEEEEEE  DDDDDDD   FF           SSSSSSSS        TT    RR    RR  UUUUUUUUUU  CCCCCCCC      TT
EEEEEEEEEE  DDDDDDD   FF           SSSSSSSS        TT    RR    RR  UUUUUUUUUU  CCCCCCCC      TT
```

```
LL          IIIIII    SSSSSSSS
LL          IIIIII    SSSSSSSS
LL            II    SS
LL            II    SS
LL            II    SS
LL            II    SS
LL            II      SSSSSS
LL            II      SSSSSS
LL            II          SS
LL            II          SS
LL            II          SS
LL            II          SS
LLLLLLLLL   IIIIII    SSSSSSSS
LLLLLLLLL   IIIIII    SSSSSSSS
```

```
 1     MODULE          EDFSTRUCT;
 2     /* EDFSTRUCT - Structure definitions for EDIT/FDL
 3     /*
 4     /*       Version          'V04-000'
 5     /*
 6     /*****************************************************************
 7     /*                                                               *
 8     /*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                      *
 9     /*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.       *
10     /*  ALL RIGHTS RESERVED.                                         *
11     /*                                                               *
12     /*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  *
13     /*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
14     /*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
15     /*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
16     /*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
17     /*  TRANSFERRED.                                                 *
18     /*                                                               *
19     /*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
20     /*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
21     /*  CORPORATION.                                                 *
22     /*                                                               *
23     /*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
24     /*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.      *
25     /*                                                               *
26     /*                                                               *
27     /*****************************************************************
28
29     /*++
30     /*
31     /* FACILITY:  EDIT/FDL (EDF)
32     /*
33     /* ABSTRACT:
34     /*
35     /*       This file contains the SDL source for EDIT/FDL (EDF).
36     /*
37     /* ENVIRONMENT:
38     /*
39     /*       n/a
40     /*
41     /*--
42     /*
43     /*
44     /* AUTHOR: Ken Henderson       CREATION DATE:  Sep-1982
45     /*
46     /* MODIFIED BY:
47     /*
48     /*     V03-003 KFH0003       Ken Henderson          8 Sep 1983
49     /*             Fixed "," in constant list.
50     /*
51     /*     V03-002 KFH0002       Ken Henderson         26 Apr 1983
52     /*             Added offsets for ADD_KEY, DELETE_KEY
53     /*             scripts.
54     /*
55     /*     V03-001 KFH0001       Ken Henderson         14 Apr 1983
56     /*             Added offsets for SET FUNCTION,
57     /*             GRANULARITY, PROMPTING, RESPONSES,
```

```
58    /*              ANALYSIS, SEGMENTED and OUTPUT.
59    /*
60
61    /** Non-QTAB offsets, for variables that don't correspond to questions.
62    /**
63    /** They should be orderred: IDATA, BDATA, RDATA, SDATA types.
64    /** (NON-STORAGE) means an identifier just generates a constant,
65    /** but will have an array location - which is never accessed.
66
67    /**
68    /** xxx_HIGH identifiers MUST immediately follow the xxx_LOW identifiers!!!
69    /**
70
71    /** IDATA OFFSETS FOLLOW
72
73                    #MARK0  = 0;
74
75    CONSTANT        (
76
77                    "FDL_FILL"
78                    "FINAL_DESIGN"              /** (NON-STORAGE)
79            .       "FIRST_SCRIPT",
80            .       "WRITE_PLOT"               /** (NON-STORAGE)
81            .       "Y_HIGH",
82                    "Y_LOW"
83                    "Y_INCR"
84
85                    ) EQUALS #MARK0
86                    INCREMENT 1
87                    PREFIX "EDF$"
88                    COUNTER #MARK1;
89
90    /** BDATA OFFSETS FOLLOW
91
92    CONSTANT        (
93
94                    "DUMMY"
95
96                    ) EQUALS #MARK1+1
97                    INCREMENT 1
98                    PREFIX "EDF$"
99                    COUNTER #MARK2;
100
101   /** RDATA OFFSETS FOLLOW
102
103   CONSTANT        (
104
105                   "ADDED_FILL",
106                   "LOAD_FILL"
107
108                   ) EQUALS #MARK2+1
109                   INCREMENT 1
110                   PREFIX "EDF$"
111                   COUNTER #MARK3;
112
113   /** SDATA OFFSETS FOLLOW
114
115   CONSTANT        (
116
```

```
117                     "PLACE_HOLDER"
118
119                     ) EQUALS #MARK3+1
120                     INCREMENT 1
121                     PREFIX "EDFS"
122                     COUNTER #MARK4;
123
124  /** QTAB equivalent offsets that correspond to actual questions
125  /**
126  /** They should be orderred SDATA, RDATA, BDATA, IDATA types
127
128  /** SDATA OFFSETS FOLLOW
129
130  CONSTANT            (
131
132                     "DATA_FILE_NAME",
133                     "FDL_TITLE",
134                     "KEY_NAME",
135                     "ANALYSIS",
136                     "OUTPUT"
137
138                     ) EQUALS #MARK4+1
139               ,     INCREMENT 1
140                     PREFIX "EDFS"
141                     COUNTER #MARK5;
142
143  /** RDATA OFFSETS FOLLOW
144
145  CONSTANT            (
146
147                     "DATA_KEY_COMP",
148                     "DATA_RECORD_COMP",
149                     "INDEX_RECORD_COMP"
150
151                     ) EQUALS #MARK5+1
152                     INCREMENT 1
153                     PREFIX "EDFS"
154                     COUNTER #MARK6;
155
156  /** BDATA OFFSETS FOLLOW
157
158  CONSTANT            (
159
160                     "KEY_COMP_WANTED",
161                     "REC_COMP_WANTED",
162                     "IDX_COMP_WANTED",
163                     "ASCENDING_ADDED",
164                     "ASCENDING_LOAD",
165                     "BLOCK_SPAN",
166                     "CONFIRM"                  /** FUNCTION
167           :        "SEGMENTED"
168           :        "GLOBAL_WANTED",
169                     "KEY_CHANGES",
170                     "KEY_DIST",
171                     "KEY_DUPS",
172                     "RETURN"                   /** FUNCTION
173
174                     ) EQUALS #MARK6+1
175                     INCREMENT 1
176                     PREFIX "EDFS"
```

```
177                COUNTER #MARK7;
178
179   /** IDATA OFFSETS FOLLOW
180
181   CONSTANT         (
182
183                "CLUSTER_SIZE",
184                "ACTIVE_KEY",
185                "ADDED_COUNT",
186                "ADDED_COUNT_LOW",
187                "ADDED_COUNT_HIGH",
188                "BLOCKS_IN_BUCKET",
189                "BUCKET_WEIGHT",
190                "CARR_CTRL"                 /** QUALIFIER TYPE
191          .      "CONTROL_SIZE",
192                "CURRENT_FUNCTION",
193                "DESIGN_CYCLE",
194                "DESIRED_FILL",
195                "FILL_LOW",
196                "FILL_HIGH",
197                "GLOBAL_COUNT",
198                "GRANULARITY",
199                "INITIAL_COUNT",
200                "INITIAL_COUNT_LOW",
201                "INITIAL_COUNT_HIGH",
202                "KEY_POSITION",
203                "KEY_LOW",
204                "KEY_HIGH",
205                "KEY_SIZE",
206                "KEY_TYPE"                  /** QUALIFIER TYPE
207          .      "LOAD_METHOD",
208                "MAX_RECORD_SIZE",
209                "MEAN_RECORD_SIZE",
210                "NUMBER_DUPS",
211                "NUMBER_KEYS",
212                "NUMBER_RECORDS"            /** SYNONYM FOR INITIAL COUNT
213          .      "PROLOGUE_VERSION",
214                "PROMPTING",
215                "RECORD_FORMAT"             /** QUALIFIER TYPE
216          .      "RESPONSES"
217          .      "SCRIPT_OPTION",
218                "SET_FUNCTION",
219                "SIZE_LOW",
220                "SIZE_HIGH",
221                "SURFACE_OPTION",
222                "TEST_PRIMARY",
223                "TEST_SECONDARY",
224                "TEST_SECONDARY_VALUE"
225
226                ) EQUALS #MARK7+1
227                INCREMENT 1
228                PREFIX "EDFS"
229                COUNTER #MARK8;
230
231   /** Array boundaries definitions
```

```
232
233   CONSTANT         "EDFSK_SDATASTART"     EQUALS #MARK3+1;
234   CONSTANT         "EDFSK_SDATAEND"       EQUALS #MARK5;
235
236   CONSTANT         "EDFSK_RDATASTART"     EQUALS #MARK2+1;
```

```
237    CONSTANT            "EDF$K_RDATAEND"        EQUALS #MARK6;
238
239    CONSTANT            "EDF$K_BDATASTART"      EQUALS #MARK1+1;
240    CONSTANT            "EDF$K_BDATAEND"        EQUALS #MARK7;
241
242    CONSTANT            "EDF$K_IDATASTART"      EQUALS #MARK0;
243    CONSTANT            "EDF$K_IDATAEND"        EQUALS #MARK8;
244
245    CONSTANT            "EDF$K_VDATASTART"      EQUALS #MARK4+1;
246    CONSTANT            "EDF$K_VDATAEND"        EQUALS #MARK8;
247
248    CONSTANT            "EDF$K_QTABSTART"       EQUALS #MARK4+1;
249    CONSTANT            "EDF$K_QTABEND"         EQUALS #MARK8;
250
251    /** Insert_object collison-action definitions
252
253    CONSTANT            (
254
255                        "REPLACE_OBJ",
256                        "IGNORE_OBJ",
257                        "AFTER_OBJ"
258
259                        ) EQUALS 0
260                        INCREMENT 1
261                        PREFIX "";
262
263    /** Where definitions
264
265    CONSTANT            (
266
267                        "IF_FULL_PROMPT",
268                        "LOWER_AREA",
269                        "PAUSE",
270                        "SCREEN"
271
272                        ) EQUALS 0
273                        INCREMENT 1
274                        PREFIX "";
275
276    /** Bucket-weight definitions
277
278    CONSTANT            (
279
280                        "SMALLER_BUFFERS",
281                        "FLATTER_FILES"
282
283                        ) EQUALS 0
284                        INCREMENT 1
285                        PREFIX "EDF$";
286
287    /** Load-method definitions
288
289    CONSTANT            (
```

```
290
291                        "FAST_CONVERT",
292                        "NOFAST_CONVERT",
293                        "RMS_PUTS"
294
295                        ) EQUALS 0
296                        INCREMENT 1
```

```
297              PREFIX "EDFS";
298
299   /** Surface-option definitions
300
301   CONSTANT         (
302
303              "FILL_SURFACE",
304              "SIZE_SURFACE",
305              "INIT_SURFACE",
306              "ADDED_SURFACE",
307              "KEY_SURFACE",
308              "LINE_SURFACE"
309
310              ) EQUALS 0
311              INCREMENT 1
312              PREFIX "EDFS";
313
314   /** Current-function definitions
315
316   CONSTANT         (
317
318              "ADD",
319              "DELETE",
320              "EXIT",
321              "HELP",
322              "INVOKE",
323              "MODIFY",
324              "QUIT",
325              "SET",
326              "VIEW"
327
328              ) EQUALS 0
329              INCREMENT 1
330              PREFIX "EDFS";
331
332   /** Set_function definition
333
334   CONSTANT         (
335
336              "SET_ANALYSIS",
337              "SET_DISPLAY",
338              "SET_EMPHASIS",
339              "SET_GRANULARITY",
340              "SET_NUMBER_KEYS",
341              "SET_OUTPUT",
342              "SET_PROMPTING",
343              "SET_RESPONSES",
344              "SET_SCRIPT",
345              "SET_TEMPLATE"
346
347              ) EQUALS 0
348              INCREMENT 1
349              PREFIX "EDFS";
350
351   /** Responses definitions
352
353   CONSTANT         (
354
355              "AUTO",
356              "MAN"
```

```
357
358                       ) EQUALS 0
359                       INCREMENT 1
360                       PREFIX "EDFS";
361
362   /** Prompting definitions
363
364   CONSTANT              (
365
366                       "FULL",
367                       "BRIEF"
368
369                       ) EQUALS 0
370                       INCREMENT 1
371                       PREFIX "EDFS";
372
373   /** Granularity definitions
374
375   CONSTANT              (
376
377                       "ONE",
378                       "TWO",
379                       "THREE",
380                       "FOUR",
381                       "DOUBLE"
382
383                       ) EQUALS 0
384                       INCREMENT 1
385                       PREFIX "EDFS";
386
387   /** Script-option definitions
388
389   CONSTANT              (
390
391                       "ADD_KEY_FDL",
392                       "DELETE_KEY_FDL",
393                       "IDX_DESIGN_FDL",
394                       "REL_DESIGN_FDL",
395                       "SEQ_DESIGN_FDL",
396                       "OPTIMIZE_FDL",
397                       "REDESIGN_FDL",
398                       "ZERO_SCRIPT"
399
400                       ) EQUALS 0
401                       INCREMENT 1
402                       PREFIX "EDFS";
403
404   /** Yes-No definitions
405
406   CONSTANT              (
407
408                       "NO",
409                       "YES"
410
411                       ) EQUALS 0
412                       INCREMENT 1
413                       PREFIX "EDFS";
414
415   /** Answer-class definitions
416
```

```
417    CONSTANT           (
418
419                        "STRING_ANSWER",
420                        "REAL_ANSWER",
421                        "BOOLEAN_ANSWER",
422                        "INTEGER_ANSWER",
423                        "KEYWORD_ANSWER",
424                        "NO_ANSWER",
425                        "OBJECT_ANSWER"
426
427                        ) EQUALS 0
428                        INCREMENT 1
429                        PREFIX '"' TAG '"';
430
431    /** Equivalences for Design-cycle definitions
432
433    CONSTANT           "EDF$K_RS"                  EQUALS "EDF$K_MEAN_RECORD_SIZE";
434    CONSTANT           "EDF$K_KL"                  EQUALS "EDF$K_KEY_SIZE";
435    CONSTANT           "EDF$K_KP"                  EQUALS "EDF$K_KEY_POSITION";
436    CONSTANT           "EDF$K_IL"                  EQUALS "EDF$K_INITIAL_COUNT";
437    CONSTANT           "EDF$K_BF"                  EQUALS "EDF$K_DESIRED_FILL";
438    CONSTANT           "EDF$K_EM"                  EQUALS "EDF$K_BUCKET_WEIGHT";
439    CONSTANT           "EDF$K_RF"                  EQUALS "EDF$K_RECORD_FORMAT";
440    CONSTANT           "EDF$K_RC"                  EQUALS "EDF$K_DATA_RECORD_COMP";
441    CONSTANT           "EDF$K_KC"                  EQUALS "EDF$K_DATA_KEY_COMP";
442    CONSTANT           "EDF$K_DK"                  EQUALS "EDF$K_KEY_DUPS";
443    CONSTANT           "EDF$K_LM"                  EQUALS "EDF$K_LOAD_METHOD";
444    CONSTANT           "EDF$K_AR"                  EQUALS "EDF$K_ADDED_COUNT";
445    CONSTANT           "EDF$K_IC"                  EQUALS "EDF$K_INDEX_RECORD_COMP";
446    CONSTANT           "EDF$K_WP"                  EQUALS "EDF$K_WRITE_PLOT";
447    CONSTANT           "EDF$K_FINIS"               EQUALS "EDF$K_FINAL_DESIGN";
448    CONSTANT           "EDF$K_PV"                  EQUALS "EDF$K_PROLOGUE_VERSION";
449    CONSTANT           "EDF$K_KT"                  EQUALS "EDF$K_KEY_TYPE";
450
451    /*     The following are used to interface to the EDF$GRAPH routine.
452    /*
453        CONSTANT (
454
455                        LINE
456                      , SRF_INCREASING
457                      , SRF_DECREASING
458
459                        ) EQUALS 0 INCREMENT 1 PREFIX "EDF$" TAG "C";
460
461        CONSTANT (
462
463                        BACKGROUND_COLOR
```

```
464                      , DARK_RED
465                      , MEDIUM_YELLOW
466                      , LIGHT_GREEN
467
468                        ) EQUALS 0 INCREMENT 1 PREFIX "EDF$" TAG "C";
469
470    END_MODULE EDFSTRUCT;
```

EDFTABLES
LIS

EDFTYPE
LIS

EDFUTIL
LIS

EDFTERM
LIS

EDFSTRUCT
LIS