

FFFFFFFFFFFFFFFF	DDDDDDDDDDDDDD	LLL
FFFFFFFFFFFFFFFF	DDDDDDDDDDDDDD	LLL
FFFFFFFFFFFFFFFF	DDDDDDDDDDDDDD	LLL
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFFFFFFFFFFFFFF	DDD	DDD
FFFFFFFFFFFFFFF	DDD	DDD
FFFFFFFFFFFFFFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDD	DDD
FFF	DDDDDDDDDDDDDD	LLLLLLLLLLLLLLLL
FFF	DDDDDDDDDDDDDD	LLLLLLLLLLLLLLLL
FFF	DDDDDDDDDDDDDD	LLLLLLLLLLLLLLLL

```
FFFFFFFFF DDDDDDD LL PPPPPPP AAAAAA RRRRRRR DDDDDDD EEEEEEEEE FFFFFFFF
FFFFFFFFF DDDDDDD LL PPPPPPP AAAAAA RRRRRRR DDDDDDD EEEEEEEEE FFFFFFFF
FF DD DD LL PP PP AA AA RR RR DD DD EE FF
FF DD DD LL PP PP AA AA RR RR DD DD EE FF
FF DD DD LL PP PP AA AA RR RR DD DD EE FF
FF DD DD LL PP PP AA AA RR RR DD DD EE FF
FFFFFFFFF DD DD LL PPPPPPP AAAAAA RRRRRRR DDDDDDD EEEEEEEEE FFFFFFFF
FFFFFFFFF DD DD LL PPPPPPP AAAAAA RRRRRRR DDDDDDD EEEEEEEEE FFFFFFFF
FF DD DD LL PP PP AA AA RR RR DD DD EE FF
FF DD DD LL PP PP AA AA RR RR DD DD EE FF
FF DD DD LL PP PP AA AA RR RR DD DD EE FF
FF DD DD LL PP PP AA AA RR RR DD DD EE FF
DDDDDDDD LLLLLLLLLL PP AA AA RR RR DDDDDDD EEEEEEEEE FF
DDDDDDDD LLLLLLLLLL PP AA AA RR RR DDDDDDD EEEEEEEEE FF
.....

LL I I I I I S S S S S S S
LL I I I I I S S S S S S S
LL I I S S
LL I I S S
LL I I S S
LL I I S S
LL I I S S S S S S
LL I I S S S S S S
LL I I S S
LL I I S S
LL I I S S
LL I I S S
LLLLLLLLLL I I I I I S S S S S S S
LLLLLLLLLL I I I I I S S S S S S S
```

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_S255SDUA28:[FDL.SRC]FDLPADEF.SDL;1

```
1 {
2 { Version: 'V04-000'
3 {
4 {*****
5 {*
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```

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SDL V2.0 Page 2
_S255SDUA28:[FDL.SRC]FDLPADEF.SDL;1

```
27 module $FDLDEF3;
28
```

```
29 /**      These fields are found in FDL$AB_CTRL
30 /**
31
```

```
32 aggregate FDLDEF3 union prefix FDL$:
33     FDLDEF_BITSO structure;
```

```
34     STATUS bitfield mask length 3;
```

```
35     WARNING bitfield mask;
```

```
36     PRIMARY bitfield mask;
```

```
37     NEWPRI bitfield mask;
```

```
38     SECONDARY bitfield mask;
```

```
39     INITIAL bitfield mask;
```

```
40     COMMENT bitfield mask;
```

```
41     LINECMT bitfield mask;
```

```
42     PCALL bitfield mask;
```

```
43     DCL bitfield mask;
```

```
44     STRING_SPEC bitfield mask;
```

```
45     USED_STRING bitfield mask;
```

```
46     APOST_PRE bitfield mask;
```

```
47     QUOTE_PRE bitfield mask;
```

```
48     REPARSE bitfield mask;
```

```
49     DFLT_PRE bitfield mask;
```

```
50     STVALID bitfield mask;
```

```
51     GCALL bitfield mask;
```

```
52     FULLGEN bitfield mask;
```

```
53     DEALLOC bitfield mask;
```

```
54
55 end FDLDEF_BITSO;
56
```

```
/* Status code for processing
/* A warning message has been issued for this secondary
/* Primary has been parsed
/* A new primary has been parsed
/* Secondary has been parsed
/* Initial pass
/* Secondary comment has been detected
/* Line comment has been detected
/* This is an EDF Parse call
/* Called by a DCL utility
/* An FDL STRING
/* FDL STRING has been set up
/* An apostrophe was found by the pre_parse
/* A quotation mark was found by the pre_parse
/* Doing a parse into a parse
/* The DFLT FDL SPEC argument was present
/* FDL$G_L_STNUMPTR is valid
/* This is an EDF Generate call
/* Generate the full FDL spec
/* Make FDL$$CHECK_BLOCKS deallocate the
/* RMS control blocks after it checks them
```

57 /* Codes found in FDL\$GL_PRIMARY

58 /*

59 constant(
60 DUMMY_PRIMARY\$

61 , ACCESS

62 , ACL

63 , ANALA

64 , ANALK

65 , AREA

66 , CONNECT

67 , DATE

68 , FILE

69 , "IDENT"

70 , JNL

71 , KEY

72 , RECORD

73 , SHARING

74 , SYSTEM

75 , TITLE

76

77 /* LAST PRIMARY

78 /*

79 , PRITAB_SIZE

80) equals 0 increment 1 prefix FDL tag \$C;

81

82 /* Bits defined for FDL\$AB_PRIMCTRL

83 /*

84 FDLDEF BITS1 structure;

85 ACCESS bitfield mask;

86 ACL bitfield mask;

87 ANALA bitfield mask;

88 ANALK bitfield mask;

89 AREA bitfield mask;

90 CONNECT bitfield mask;

91 DATE bitfield mask;

92 FILE bitfield mask;

93 "IDENT" bitfield mask;

94 JNL bitfield mask;

95 KEY bitfield mask;

96 RECORD bitfield mask;

97 SHARING bitfield mask;

98 SYSTEM bitfield mask;

99 TITLE bitfield mask;

100 end FDLDEF_BITS1;

101

102 /* Single field switch for YES - NO qualifiers

103 /*

104 constant FALSE equals 0 prefix FDL tag \$C; /* No

105 constant TRUE equals -1 prefix FDL tag \$C; /* Yes

106

107 /* Secondary codes for each primary

108 /* These codes are found in FDL\$GL_SECONDARY

109 /*

110 /* Qualifiers for each secondary are listed seperatly

111

112 /* !!!

113 /* REMEMBER TO UPDATE XXX BEG AND XXX END MARKERS IF AN ATTRIBUTE IS

114 /* ADDED/SUBTRACTED ONTO/OFF EITHER END OF A PRIMARY SECTION

115 /*

116

F 4

/* Dummy_primary\$

/* Access

/* Access Control Lists

/* Analysis_of_area

/* Analysis_of_key

/* Area

/* Connect

/* Date

/* File

/* Ident

/* Journal

/* Key

/* Record

/* Sharing

/* System

/* Title

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FDL
V04

```

117  /*      Access primary
118  /*
119      constant(
120          DUMMY SECONDARY$
121          , FACBIO
122          , FACDEL
123          , FACGET
124          , FACPUT
125          , FACBRO
126          , FACTRN
127          , FACUPD
128
129      /*      ACL
130      /*
131          , ACE
132
133      /*      Codes for Analysis_of_area primary
134      /*
135          , RECL
136
137      /*      Analysis_of_key primary
138      /*
139          , DFIL
140
141
142          , DKC
143          , DRC
144          , DREC
145          , DSPC
146          , DELE
147          , DEPTH
148          , DUPL
149          , ICOMP
150          , IFIL
151          , ISPC
152          , LIRCNT
153          , MDL
154          , MIL
155          , RANACC
156          , RANINS
157          , SEQACC
158
159      /*      Codes for Area primary
160      /*
161          , ALLOC
162          , BTCONT
163          , BKT
164          , CONTG
165          , EXACT
166          , EXTND
167          , POSI
168          , VOLU
169
170      /*      Codes for Connect primary
171      /*
172          , ASY
173          , BIO
174          , BUCODE
175          , RCTX
176          , EOF

```

G 4

```

/* Dummy_secondary$
/* Block I/O only
/* Deletes
/* Gets
/* Puts
/* Record and Block I/O
/* Truncate
/* Updates

```

/* Entry

/* Reclaimed_space

/* Data_fill

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```

/* Data_key_compression
/* Data_record_compression
/* Data_record_count
/* Data_space_occupied
/* Deletions
/* Depth
/* Duplicates_per_value
/* Index_compression
/* Index_fill
/* Index_space_occupied
/* LevelT_record_count
/* Mean_data_length
/* Mean_index_length
/* Random_accesses
/* Random_inserts
/* Sequential_accesses

```

```

/* Allocation
/* Best_try_contiguous
/* Bucket_size
/* Contiguous
/* Exact_position
/* Extend
/* Position
/* Voulme

```

```

/* Asynchronous
/* Block IO
/* Bucket_code
/* Context
/* End_of_file

```

177	, FLOA	H 4	/* Fill_buckets
178	, FDEL	/* Fast_delete	/* Key_of_reference
179	, KRF	/* Key_greater_equal	/* Key_greater_than
180	, KGE	/* Key_limit	/* Locate_mode
181	, KGT	/* Lock_on_read	/* Lock_on_write
182	, KLIM	/* Manual_unlocking	/* Multiblock_count
183	, LOCMODE	/* Multibuffer_count	/* Nolock
184	, REA	/* Nonexistent_record	/* Read_ahead
185	, RLK	/* Read_regardless	/* Timeout_enable
186	, ULK	/* Timeout_period	/* Truncate_on_put
187	, MBC	/* TT_cancel_control_o	/* TT_upcase_input
188	, MBF	/* TT_prompt	/* TT_purge_type_ahead
189	, NLK		
190	, NXR		
191	, RAH		
192	, RRL		
193	, TMENB		
194	, TMO		
195	, TPT		
196	, TTCCO		
197	, TTCVT		
198	, TTPMT		
199	, TTPTA		
200	, TTRNE	15-SEP-1984 23:01:54.97	SDL V2.0
201	, TTRNF	15-SEP-1984 22:44:18	Page 5
202	, UIF	/* TT_read_noecho	_\$255\$DUA28:[FDL.SRC]FDLPARDEF.SDL;1
203	, WAT	/* TT_read_nofilter	
204	, WBH	/* Update_if	
205		/* Wait_for_record	
206	/* Codes for Date primary	/* Write_behind	
207	/*		
208	, BACKUP	/* Backup	
209	, CREAT	/* Creation	
210	, EXPR	/* Expiration	
211	, REV	/* Revision	
212			
213	/* Codes for File primary		
214	/*		
215	, ALL	/* Allocation	
216	, BTC	/* Best_try_contiguous	
217	, BKTSIZ	/* Bucket_size	
218	, CLUSIZ	/* Cluster_size	
219	, FCTX	/* Context	
220	, CONT	/* Contiguous	
221	, CIF	/* Create_if	
222	, DFNAM	/* Default_name	
223	, DEFWRT	/* Deferred_write	
224	, DOC	/* Delete_on_close	
225	, DIR	/* Directory_entry	
226	, EODEL	/* Erase_on_delete	
227	, EXTEN	/* Extension	
228	, GBC	/* Global_buffer_count	
229	, MTBLSIZ	/* MT_block_size	
230	, MTCP	/* MT_current_position	
231	, MTNEF	/* MT_not_eof	
232	, MTPRO	/* MT_protection	
233	, MTREW	/* MT_rewind / MT_open_rewind	
234	, MTRWC	/* MT_close_rewind	
235	, MAXRECN	/* Max_record_number	
236	, MAXVER	/* Maximize_version	

237	, NAME	I 4
238	, BKTUP	/* Name
239	, NFS	/* Nobackup
240	, OFP	/* Non_file_structured
241	, ORG	/* Output_file_parse
242	, OWNER	/* Organization
243	, POC	/* Owner
244	, PROT	/* Print_on_close
245	, READC	/* Protection
246	, REVISN	/* Read_check
247	, SQO	/* Revision
248	, SOC	/* Sequential_only
249	, SUPER	/* Submit_on_close
250	, TEMPO	/* Superscede
251	, TOC	/* Temporary
252	, UFO	/* Truncate_on_close
253	, WIN	/* User_file_open
254	, WRITEC	/* Window_size
255		/* Write_check
256	/* Codes for Journal primary	
257	/*	

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258	, AFTIM	/* After_image
259	, AFTNAM	/* After_name
260	, AUDIT	/* Audit_trail
261	, AUDNAM	/* Audit_name
262	, BEFIM	/* Before_image
263	, BEFNAM	/* Before_name
264	, RU	/* Recovery_unit
265		
266	/* Codes for Key primary	
267	/*	
268	, CHANGE	/* Changes
269	, DAREA	/* Data_area
270	, DFILL	/* Data_fill
271	, DATKC	/* Data_key_compression
272	, DATRC	/* Data_record_compression
273	, DUPS	/* Duplicates
274	, IAREA	/* Index_area
275	, IDXC	/* Index_compression
276	, IFILL	/* Index_fill
277	, LAREA	/* LevelT_index_area
278	, KYNAME	/* Name
279	, NULL	/* Null_key
280	, NULLVAL	/* Null_value
281	, PROL	/* Prologue_version
282	, SEGLEN	/* Segment_length
283	, SEGPOS	/* position
284	, SEGTP	/* type
285		
286	/* Codes for Record primary	
287	/*	
288	, BLKSPN	/* Block_span
289	, CARCTRL	/* Carriage_control
290	, VFCSIZ	/* Control_field_size
291	, FMT	/* Format
292	, SIZE	/* Record_size
293		
294	/* Sharing primary	
295	/*	
296	, SHRDEL	/* Deletes

```

297      , SHRGET
298      , SHRMSE
299      , SHRNIL
300      , SHRPUT
301      , SHRUPD
302      , SHRUPI
303
304 /*      Codes for System primary
305 /*
306      , DEVICE
307      , SOURCE
308      , TARGET
309
310 /**     THE LAST SECONDARY FOLLOWS:
311 /*
312      , SECTAB_SIZE
313      ) equals 0 increment 1 prefix FDL tag $C;
314
315 /*      The following are markers which are useful to FDL$GENERATE

```

```

J 4
/* Gets
/* Multi-stream connects
/* Dissallow sharing
/* Puts
/* Updates
/* User provided interlocking

```

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_S255SDUA28:[FDL.SRC]FDLPARDEF.SDL;1

```

316 /*
317 constant ACCESS_BEG equals FDL$C_FACBIO prefix FDL$ tag C;
318 constant ACCESS_END equals FDL$C_FACUPD prefix FDL$ tag C;
319
320 constant ACL_BEG equals FDL$C_ACE prefix FDL$ tag C;
321 constant ACL_END equals FDL$C_ACE prefix FDL$ tag C;
322
323 constant ANALYSIS_OF_AREA_BEG equals FDL$C_RECL prefix FDL$ tag C;
324 constant ANALYSIS_OF_AREA_END equals FDL$C_RECL prefix FDL$ tag C;
325
326 constant ANALYSIS_OF_KEY_BEG equals FDL$C_DFIL prefix FDL$ tag C;
327 constant ANALYSIS_OF_KEY_END equals FDL$C_SEQACC prefix FDL$ tag C;
328
329 constant AREA_BEG equals FDL$C_ALLOC prefix FDL$ tag C;
330 constant AREA_END equals FDL$C_VOLU prefix FDL$ tag C;
331
332 constant CONNECT_BEG equals FDL$C_ASY prefix FDL$ tag C;
333 constant CONNECT_END equals FDL$C_WBH prefix FDL$ tag C;
334
335 constant DATE_BEG equals FDL$C_BACKUP prefix FDL$ tag C;
336 constant DATE_END equals FDL$C_REV prefix FDL$ tag C;
337
338 constant FILE_BEG equals FDL$C_ALL prefix FDL$ tag C;
339 constant FILE_END equals FDL$C_WRITEC prefix FDL$ tag C;
340
341 constant JOURNAL_BEG equals FDL$C_AFTIM prefix FDL$ tag C;
342 constant JOURNAL_END equals FDL$C_RU prefix FDL$ tag C;
343
344 constant KEY_BEG equals FDL$C_CHANGE prefix FDL$ tag C;
345 constant KEY_END equals FDL$C_SEGTYP prefix FDL$ tag C;
346
347 constant RECORD_BEG equals FDL$C_BLKSPN prefix FDL$ tag C;
348 constant RECORD_END equals FDL$C_SIZE prefix FDL$ tag C;
349
350 constant SHARING_BEG equals FDL$C_SHRDEL prefix FDL$ tag C;
351 constant SHARING_END equals FDL$C_SHRUI prefix FDL$ tag C;
352
353 constant SYSTEM_BEG equals FDL$C_DEVICE prefix FDL$ tag C;
354 constant SYSTEM_END equals FDL$C_TARGET prefix FDL$ tag C;
355
356 /*      Qualifiers

```

```

357  /*
358  /*      These codes are found in FDL$GL_QUALIFIER
359  /*

```

```

360
361  /*      Qualifiers for the Area secondary
362  /*

```

```

363  constant(
364      ANYPOS          /* Any Cylinder
365      , CLUSPOS       /* Cluster
366      , CYLPOS        /* Cylinder
367      , FIDPOS        /* File_ID
368      , FNMPOS        /* File_name
369      , LOGPOS        /* Logical
370      , NOPOS         /* None
371      , VIRPOS        /* Virtual
372

```

```

373  /*      Qualifiers for the Record secondary

```

```

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```

```

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```

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```

374  /*
375      , NONE          /* None
376      , CR            /* Carriage return
377      , FTN           /* Fortran
378      , PRINT         /* Print
379

```

```

380      , UDF           /* UNDEFINED
381      , FIX           /* FIXED
382      , VAR           /* VARIABLE
383      , VFC           /* VFC
384      , STM           /* STREAM
385      , STM_LF        /* STREAM_LF
386      , STM_CR        /* STREAM_CR
387

```

```

388  /*      Qualifiers for the Journal secondary
389  /*

```

```

390      , IF_IN         /* If_in_recovery_unit
391      , NEC            /* Necessary_to_write
392      , NEVER         /* Never_RU_journal
393

```

```

394  /*      Qualifiers for the System secondary
395  /*

```

```

396      , IAS           /* IAS
397      , RSTS          /* RSTS/E
398      , M             /* RSX-11M
399      , MPLUS         /* RSX-11M-PLUS
400      , RT            /* RT-11
401      , TRAX          /* TRAX-11
402      , VMS           /* VAX/VMS
403

```

```

404  /*      Qualifiers for the File secondary
405  /*

```

```

406
407      , SEQ           /* SEQUENTIAL
408      , REL           /* RELATIVE
409      , IDX           /* INDEXED
410      , HSH           /* HASHED
411

```

```

412  /*      Qualifiers for the Key secondary
413  /*

```

```

414
415      , STG           /* STRING
416      , IN2           /* INT2

```

```

417      , BN2
418      , IN4
419      , BN4
420      , IN8
421      , BN8
422      , PAC
423
424      ) equals 0 increment 1 prefix FDL tag $C;
425
426  /*      Constants for FDLGENTAB
427  /*
428
429      constant(
430
431          FAB

```

```

L 4
/* BIN2
/* INT4
/* BIN4
/* INT8
/* BIN8
/* DECIMAL

```

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```

432      , RAB
433      , XAB
434      , NAM
435
436      ) equals 0 increment 1 prefix FDL tag $C;
437
438      constant(
439
440          DUMMY
441      , BYTE
442      , WORD
443      , LONG
444      , QUAD
445      , OCTA
446      , SWITCH
447      , STRING
448      , QUALIFIER
449      , SPECIAL
450
451      ) equals 0 increment 1 prefix FDL tag $C;
452
453  /**      Parse data stuff
454  /**
455  /**      These structures must be contiguous so that EDF can access them from
456  /**      one point.  If they need to be changed consult with the owner of edf
457  /**
458  /**
459  /**      FDL$AL_BLOCK:

```

460	ctrl	0
461	pcall	1
462	primary	2
463	prinum	3
464	prictrl	4
465	secondary	5
466	secnum	6
467		7
468		
469		
470		
471		
472		
473		
474		
475		
476		

prefix FDL tag \$L;

```

537      constant PCALL      equals FDL$$_CTRL + 1      N 4      prefix FDL tag $L;
538      constant PRIMARY    equals FDL$$_PCALL + 1      prefix FDL tag $L;
539      constant PRINUM     equals FDL$$_PRIMARY + 1    prefix FDL tag $L;
540      constant PRICTRL    equals FDL$$_PRINUM + 1     prefix FDL tag $L;
541      constant SECONDARY  equals FDL$$_PRICTRL + 1    prefix FDL tag $L;
542      constant SECNUM     equals FDL$$_SECONDARY + 1   prefix FDL tag $L;
543
544      /** FDL$$_SCTRL_LONG is the number of longwords in FDL$$_SECCTRL
545      /** FDL$$_SCTRL_VEC is the number of bits in FDL$$_SECCTRL
546      /** Each longword has enough bits to map 32 unique secondary attributes
547

```

```

548      constant SCTRL_LONG equals 6
549      constant SCTRL_VEC  equals FDL$$_SCTRL_LONG * 32
550      constant SECCTRL    equals FDL$$_SECNUM + 1
551      constant QUALIFIER  equals
552      FDL$$_SECCTRL + FDL$$_SCTRL_LONG prefix FDL tag $L,
553
554      constant NUMBER      equals FDL$$_QUALIFIER + 1   prefix FDL tag $L;
555      constant SWITCH      equals FDL$$_NUMBER + 1     prefix FDL tag $L;
556      constant OWNER_UIC   equals FDL$$_SWITCH + 1     prefix FDL tag $L;
557      constant SPARET      equals FDL$$_OWNER_UIC + 1   prefix FDL tag $L;
558      constant PROTECTION  equals FDL$$_SPARET + 1     prefix FDL tag $L;
559      constant FID1        equals FDL$$_PROTECTION + 1  prefix FDL tag $L;
560      constant FID2        equals FDL$$_FID1 + 1        prefix FDL tag $L;
561      constant FID3        equals FDL$$_FID2 + 1        prefix FDL tag $L;
562      constant DATE_TIME   equals FDL$$_FID3 + 1        prefix FDL tag $Q;
563      constant STRING      equals FDL$$_DATE_TIME + 2   prefix FDL tag $Q;
564      constant COMMENT     equals FDL$$_STRING + 2     prefix FDL tag $Q;
565      constant LINE        equals FDL$$_COMMENT + 2     prefix FDL tag $Q;
566      constant UPCASED     equals FDL$$_LINE + 2        prefix FDL tag $Q;
567      constant STMNTNUM    equals FDL$$_UPCASED + 2     prefix FDL tag $L;
568      constant ITEM        equals FDL$$_STMNTNUM + 1    prefix FDL tag $Q;
569      constant GCALL       equals FDL$$_ITEM + 2        prefix FDL tag $L;
570      constant BLOCK_END   equals FDL$$_GCALL          prefix FDL tag $K;
571
572      /**      Misc.
573      /**
574      /**      Max size of the fdl line
575      /**
576      constant MAXLINE      equals 1024                  prefix FDL tag $K;
577
578      constant CLEAR        equals 0                    prefix FDL tag $C;
579
580      end FDLDEF3;
581
582      end_module $FDLDEF3;
583

```

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FDL
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