


```

FFFFFFFFF LL      IIIIII  PPPPPPP  RRRRRRR  EEEEEEEEE  CCCCCCCC  SSSSSSS
FFFFFFFFF LL      IIIIII  PPPPPPP  RRRRRRR  EEEEEEEEE  CCCCCCCC  SSSSSSS
FF        LL      II      PP        PP  RR        RR  EE        CC        SS
FF        LL      II      PP        PP  RR        RR  EE        CC        SS
FF        LL      II      PP        PP  RR        RR  EE        CC        SS
FF        LL      II      PP        PP  RR        RR  EE        CC        SS
FFFFFFFFF LL      II      PPPPPPP  RRRRRRR  EEEEEEEE  CC        SSSSSS
FFFFFFFFF LL      II      PPPPPPP  RRRRRRR  EEEEEEEE  CC        SSSSSS
FF        LL      II      PP        RR  RR        EE        CC        SS
FF        LL      II      PP        RR  RR        EE        CC        SS
FF        LL      II      PP        RR  RR        EE        CC        SS
FF        LL      II      PP        RR  RR        EE        CC        SS
FF        LLLLLLLLL IIIIII  PP        RR  RR        EEEEEEEEE CCCCCCCC SSSSSSS
FF        LLLLLLLLL IIIIII  PP        RR  RR        EEEEEEEEE CCCCCCCC SSSSSSS

```

```

RRRRRRRR  EEEEEEEEE  QQQQQQ
RRRRRRRR  EEEEEEEEE  QQQQQQ
RR        RR  EE        QQ        QQ
RR        RR  EE        QQ        QQ
RR        RR  EE        QQ        QQ
RR        RR  EE        QQ        QQ
RRRRRRRR  EEEEEEEE  QQ        QQ
RRRRRRRR  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

```

XTITLE 'FLIPRECS -- FLIP/RUNOFF record formats'

Version: 'V04-000'

```

*****
*
* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
* ALL RIGHTS RESERVED.
*
* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
* TRANSFERRED.
*
* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
* CORPORATION.
*
* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
*
*****

```

```

**
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:
This file documents the records emitted by RUNOFF for processing by FLIP.

ENVIRONMENT:
DSRPLUS

AUTHOR: George C. Hetrick

CREATION DATE: 1981

MODIFIED BY:

003 KAD00003 Keith Dawson 17-May-1983
Made all - CODEs [$TINY INTEGER]'s again. The reason for
having changed to [$INTEGER]'s in the first place has gone
away: FLIP code is now more tightly conditionalized (for
the benefit of TOPS-20 mainly).

002 KAD00002 Keith Dawson 07-Mar-1983
Global edit of all modules. Updated module names, idents,
copyright dates. Changed require files to BLISS library.

```

FNCT

```

Vo
***
**
FA
AB
EN
AU

```

%sbttl 'FLIP/RUNOFF record types';

\$LITERAL
FLPSK_INIT = \$DISTINCT;
FLIPSK_RNOTXT = \$DISTINCT;
FLIPSK_TCXTXT = \$DISTINCT;
FLIPSK_TCXXTN = \$DISTINCT;
FLIPSK_TCXINI = \$DISTINCT;
FLIPSK_TOCRD = \$DISTINCT;
FLIPSK_TOCTXT = \$DISTINCT;
FLIPSK_TOCPAG = \$DISTINCT;
FLIPSK_TOCHLI = \$DISTINCT;
FLIPSK_TOCHL = \$DISTINCT;
FLIPSK_NEWPAG = \$DISTINCT;

LITERAL
FLIPSK_VERSION = 1;

```
%sbttl 'INIT -- initial FLIP record';
```

```
$FIELD
```

```
$FLIP$INIT_FIELDS = SET  
  INIT_CODE = [$TINY_INTEGER], ! record type  
  INIT_FLAGS = [$BYTE], ! various flags  
  $OVERLAY(INIT_FLAGS)  
  INIT_CONTENTS = [$BIT], ! was /CONTENTS specified  
  $CONTINUE  
  INIT_LEVEL = [$SHORT_INTEGER] ! FLIP version
```

```
TES;
```

```
. Size in UNITS
```

```
LITERAL
```

```
FLIP$K_INIT_LENGTH = $FIELD SET SIZE, ! Size in FULLWORDS  
FLIP$K_INIT_SIZE = %UPVAL*$FIELD_SET_SIZE; ! Size in UNITS
```

```
MACRO
```

```
$FLIP_INIT = BLOCK[FLIP$K_INIT_LENGTH] FIELD($FLIP$INIT_FIELDS)%;
```

FNCT

MACF

LITE

```
%sbttl 'RNOTXT -- text record';
```

```
$FIELD
```

```
$FLIP$RNOTXT_FIELDS1= SET
  RNOTXT_CODE      = [$TINY_INTEGER]      : record type
  RNOTXT_LENGTH    = [$SHORT_INTEGER]     : length of data portion
TES;
```

MACR

```
LITERAL
```

```
FLIP$_RNOTXT_BASELEN = $FIELD_SET_SIZE      ! Size in FULLWORDS
FLIP$_RNOTXT_BASESIZ = %UPVAL*$FIELD_SET_SIZE ! Size in UNITS
```

MACR

```
$FIELD
```

```
$FLIP$RNOTXT_FIELDS2= SET
  RNOTXT_FILLER    = [$SUB_BLOCK(FLIP$_RNOTXT_BASELEN)],
  RNOTXT_TEXT      = [$SUB_BLOCK(1000)]      ! TEXT segment
TES;
```

MACR

```
LITERAL
```

```
FLIP$_RNOTXT_LENGTH = $FIELD_SET_SIZE      ! Size in FULLWORDS
FLIP$_RNOTXT_SIZE   = %UPVAL*$FIELD_SET_SIZE ! Size in UNITS
```

```
MACRO
```

```
$FLIP_RNOTXT = BLOCK[FLIP$_RNOTXT_LENGTH] FIELD($FLIP$RNOTXT_FIELDS1,
  $FLIP$RNOTXT_FIELDS2)%;
```

! En

```
%sbttl 'TOCTXT -- TOC text record';
```

```
$FIELD
```

```
$FLIP$TOCTXT_FIELDS1= SET
  TOCTXT_CODE      = [$TINY_INTEGER],      ! record type
  TOCTXT_MAJOR     = [$TINY_INTEGER],      ! major code
  TOCTXT_MINOR     = [$TINY_INTEGER],      ! minor code
  TOCTXT_LENGTH    = [$INTEGER]           ! length of data portion
TES;
```

```
LITERAL
```

```
FLIP$K_TOCTXT_BASELEN = $FIELD_SET_SIZE, ! Size in FULLWORDS
FLIP$K_TOCTXT_BASESIZ = %UPVAL*$FIELD_SET_SIZE; ! Size in UNITS
```

```
$FIELD
```

```
$FLIP$TOCTXT_FIELDS2= SET
  TOCTXT_FILLER    = [$SUB_BLOCK(FLIP$K_TOCTXT_BASELEN)],
  TOCTXT_TEXT      = [$SUB_BLOCK(1000)] ! TEXT segment
TES;
```

```
LITERAL
```

```
FLIP$K_TOCTXT_LENGTH = $FIELD_SET_SIZE, ! Size in FULLWORDS
FLIP$K_TOCTXT_SIZE   = %UPVAL*$FIELD_SET_SIZE; ! Size in UNITS
```

```
MACRO
```

```
$FLIP_TOCTXT = BLOCK[FLIP$K_TOCTXT_LENGTH] FIELD($FLIP$TOCTXT_FIELDS1,
  $FLIP$TOCTXT_FIELDS2)%;
```


%sbttl 'TOCPAG -- TOC page record';

\$FIELD

\$FLIP\$TOCPAG_FIELDS = SET
TOCPAG_CODE = [STINY INTEGER] ! record type
TOCPAG_PAGENO = [SSUB_BLOCK(PAGE_SCT_SIZE)] ! page number segment

TES;

LITERAL

FLIP\$K_TOCPAG_LENGTH = \$FIELD SET SIZE, ! Size in FULLWORDS
FLIP\$K_TOCPAG_SIZE = %UPVAL*\$FIELD_SET_SIZE;! Size in UNITS

MACRO

\$FLIP_TOCPAG = BLOCK[FLIP\$K_TOCPAG_LENGTH] FIELD(\$FLIP\$TOCPAG_FIELDS)%;

FOOF

LITE

LITE

LITE

!

```
%sbttl 'TCXXTN -- index':
```

```
$FIELD
```

```
$FLIP$TCXXTN_FIELDS = SET  
  TCXXTN_CODE      = [$TINY_INTEGER],      ! record type  
  $ALIGN(FULLWORD)  
  TCXXTN_XTN       = [$INTEGER],           ! transaction type  
  TCXXTN_SCT       = [$SUB_BLOCK(PAGE_SCT_SIZE)] ! page number segment
```

```
TES;
```

```
LITERAL
```

```
FLIP$K_TCXXTN_LENGTH = $FIELD_SET_SIZE, ! Size in FULLWORDS  
FLIP$K_TCXXTN_SIZE   = %UPVAL*$FIELD_SET_SIZE;! Size in UNITS
```

```
MACRO
```

```
$FLIP_TCXXTN = BLOCK[FLIP$K_TCXXTN_LENGTH] FIELD($FLIP$TCXXTN_FIELDS)%;
```


%sbttl 'TCXINI -- Index Header record';

```

$FIELD
$FLIP$TCXINI_FIELDS = SET
  TCXINI_CODE = [$TINY INTEGER],      ! record type
  TCXINI_HEADER = [$INTEGER]          ! TCX format indicator
TES;

```

```

LITERAL
FLIP$K_TCXINI_LENGTH = $FIELD_SET_SIZE, ! Size in FULLWORDS
FLIP$K_TCXINI_SIZE = %UPVAL*$FIELD_SET_SIZE;! Size in UNITS

```

```

MACRO
$FLIP_TCXINI = BLOCK[FLIP$K_TCXINI_LENGTH] FIELD($FLIP$TCXINI_FIELDS)%;

```

FOOR

MACR

LITE

MACR

!Her
LITE

LITE

!

```
%sbttl 'TCXTXT -- Index TEXT record';
```

```
$FIELD
```

```
$FLIP$TCXTXT_FIELDS1 = SET
  TCXTXT_CODE          = [$TINY_INTEGER],      ! record type
  $ALIGN(FULLWORD)
  TCXTXT_ENTRY         = [$INTEGER],          ! ENTRY flag
  TCXTXT_LENGTH        = [$INTEGER],          ! length of data
  TCXTXT_XTN           = [$INTEGER],          ! transaction number
  TCXTXT_BAR           = [$INTEGER]          ! change bar flag
```

```
TES;
```

```
LITERAL
```

```
FLIP$K_TCXTXT_BASELEN = $FIELD_SET_SIZE,      ! Size in FULLWORDS
FLIP$K_TCXTXT_BASESIZ = %UPVAL*$FIELD_SET_SIZE;! Size in UNITS
```

```
$FIELD
```

```
$FLIP$TCXTXT_FIELDS2 = SET
  TCXTXT_DUMMY         = [%SUB_BLOCK(FLIP$K_TCXTXT_BASELEN)],
  TCXTXT_TEXT          = [%SUB_BLOCK(1000)]     ! text of entry
```

```
TES;
```

```
LITERAL
```

```
FLIP$K_TCXTXT_LENGTH = $FIELD_SET_SIZE,      ! Size in FULLWORDS
FLIP$K_TCXTXT_SIZE   = %UPVAL*$FIELD_SET_SIZE;! Size in UNITS
```

```
MACRO
```

```
$FLIP_TCXTXT = BLOCK[FLIP$K_TCXTXT_LENGTH] FIELD($FLIP$TCXTXT_FIELDS1,
  $FLIP$TCXTXT_FIELDS2)%;
```

%sbttl 'TOCHL -- HL indicator record';

Ve

\$FIELD
\$FLIP\$TOCHL_FIELDS = SET
 TOCHL_CODE = [%TINY_INTEGER] ! record type
TES;

LITERAL
FLIP\$K_TOCHL_LENGTH = \$FIELD_SET_SIZE, ! Size in FULLWORDS
FLIP\$K_TOCHL_SIZE = %UPVAL*\$FIELD_SET_SIZE; ! Size in UNITS

*

MACRO
\$FLIP_TOCHL = BLOCK[FLIP\$K_TOCHL_LENGTH] FIELD(\$FLIP\$TOCHL_FIELDS)%;

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

..

++

FA

AB

EN

AU

CR

MO

--

LITE

LITE

CONVRT REQ			FRMSTK REQ	GETQSC REQ				NDXCLI REQ	NDXRTY REQ					
	ECC REQ					KWITEM REQ				PHDEF REQ		RUNTAB REQ		
		FLIPRECS REQ	FNCT REQ		GNCC REQ	IFSTK REQ					OUTOPT REQ			
DIGIT REQ				FSPACK REQ						NDXXPL REQ				
								MAXIMA REQ				POOL REQ	RUNHAN REQ	
DMDEFS REQ	FFDEFS REQ				GSLUCC REQ	INDEX REQ			NDXLIN REQ		PAGEN REQ			
							LETTER REQ			NMLST REQ				
			FOOFIL REQ	GCA REQ				MSG REQ				RNODEF REQ		
DSRLIB REQ	FLGT REQ				HCT REQ	IRAC REQ			NDXPOL REQ		PASS REQ			
							LODEFS REQ			NUMPRM REQ				
			FOOREC REQ					MSGTXT REQ	NBITS REQ					
						KC REQ					PDT REQ	RNOMAC REQ		
	FLRCHARS REQ				HLC REQ		LSTBTS REQ			OPDEV REQ				