


```

XX      XX  FFFFFFFF  DDDDDDD  EEEEEEEEE  FFFFFFFF
XX      XX  FFFFFFFF  DDDDDDD  EEEEEEEEE  FFFFFFFF
XX      XX  FF        DD        DD  EE        FF
XX      XX  FF        DD        DD  EE        FF
  XX    XX  FF        DD        DD  EE        FF
  XX    XX  FF        DD        DD  EE        FF
    XX  XX  FFFFFFFF  DD        DD  EEEEEEE  FFFFFFFF
    XX  XX  FFFFFFFF  DD        DD  EEEEEEE  FFFFFFFF
  XX    XX  FF        DD        DD  EE        FF
  XX    XX  FF        DD        DD  EE        FF
XX     XX  FF        DD        DD  EE        FF
XX     XX  FF        DD        DD  EE        FF
XX     XX  FF        DDDDDDD  EEEEEEEEE  FF
XX     XX  FF        DDDDDDD  EEEEEEEEE  FF

```

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....
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....
....

```

```

FFFFFFFFF  00000  RRRRRRR
FFFFFFFFF  00000  RRRRRRR
FF          00    00  RR      RR
FF          00    00  RR      RR
FF          00    00  RR      RR
FF          00    00  RR      RR
FFFFFFFFF  00    00  RRRRRRR
FFFFFFFFF  00    00  RRRRRRR
FF          00    00  RR  RR
FF          00    00  RR  RR
FF          00    00  RR  RR
FF          00    00  RR  RR
FF          00000  RR      RR
FF          00000  RR      RR

```

C
C Version: 'V04-000'
C

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C
C Modified by:

C V03-001

C Steve Beckhardt 1-Jun-1982
C Corrected definitions for XFSM_IOS_CMDSTD and
C XFSM_IOS_DRVABT bits.

C
C Function Codes
C

PARAMETER		
1	XFSK_PKT_RD = 0,	!read device
1	XFSK_PKT_RDCHN = 1,	!read device chained
1	XFSK_PKT_WRT = 2,	!write device
1	XFSK_PKT_WRTCHN = 3,	!write device chained
1	XFSK_PKT_WRTCM = 4,	!write control message
1	XFSK_PKT_SETTST = 6,	!set self test
1	XFSK_PKT_CLRTST = 7,	!clear self test
1	XFSK_PKT_NOP = 8,	!no-op
1	XFSK_PKT_DIAGRI = 9,	!diagnstic read internal
1	XFSK_PKT_DIAGWI = 10,	!diagnostic wrt internal
1	XFSK_PKT_DIAGRD = 11,	!diagnostic read DDI
1	XFSK_PKT_DIAGWC = 12,	!diag write control msg
1	XFSK_PKT_SETRND = 13,	!set random enable
1	XFSK_PKT_CLRRND = 14,	!clear random enable
1	XFSK_PKT_HALT = 15	!set halt

C
C Interrupt Control Codes
C

PARAMETER		
1	XFSK_PKT_UNCOND = 0,	!unconditional interrupt
1	XFSK_PKT_TMQMT = 64,	!int if TERMQ empty
1	XFSK_PKT_NOINT = 128	!do not deliver int

```

C
C Command Control Codes
C

```

```

PARAMETER      XFSK_PKT_NOTRAN = 0,      !no transmission
1              XFSK_PKT_CB = 8,          !send only command byte
1              !on Control Interconnect
1              XFSK_PKT_CBDM = 16,       !send command byte and
1              !device message
1              XFSK_PKT_CBDMBC = 24      !send command byte,
1              !dev msg, and byte count

```

```

C
C Other Modes Values
C

```

```

PARAMETER      XFSK_PKT_SUPLEN = 32     !suppress length error
PARAMETER      XFSK_PKT_INSHD = 256    !insert pkt at head
PARAMETER      XFSK_PKT_INSTL = 0      !insert pkt at tail of q

```

```

C
C Masks for error bits set in the IO Status Block
C

```

```

PARAMETER      XFSM_IOS_CIPPE = '20000000'X,
1              XFSM_IOS_CMDSTD = '2'X,
1              XFSM_IOS_DDIDIS = '10'X,
1              XFSM_IOS_DDIERR = '80'X,
1              XFSM_IOS_DIPE = '40000000'X,
1              XFSM_IOS_DRVABT = '2000'X,
1              XFSM_IOS_FREQMT = '200'X,
1              XFSM_IOS_FREQPK = '8'X,
1              XFSM_IOS_INVDDI = '800'X,
1              XFSM_IOS_INVPKT = '100'X,
1              XFSM_IOS_INVPTE = '4'X,
1              XFSM_IOS_LENERR = '1000'X,
1              XFSM_IOS_LOG = '40'X,
1              XFSM_IOS_NEXREG = '20'X,
1              XFSM_IOS_NORMAL = 1,
1              XFSM_IOS_PARERR = '80000000'X,
1              XFSM_IOS_RDSERR = '2000000'X,
1              XFSM_IOS_RNDENB = '400'X,
1              XFSM_IOS_RNGERR = '40'X,
1              XFSM_IOS_SBIERR = '1000000'X,
1              XFSM_IOS_SLFTST = '20'X,
1              XFSM_IOS_UNQERR = '80'X,
1              XFSM_IOS_WCSPE = '10000000'X

```

```

C
C Masks for error bits set in DSL in packet
C

```

```

PARAMETER      XFSM_PKT_CMDSTD = '2000'X,
1              XFSM_PKT_DDIDIS = '10'X,
1              XFSM_PKT_DDIERR = '80'X,
1              XFSM_PKT_DRVABT = '2'X,
1              XFSM_PKT_FREQMT = '200'X,
1              XFSM_PKT_FREQPK = '8'X,
1              XFSM_PKT_INVDDI = '800'X,
1              XFSM_PKT_INVPKT = '100'X,
1              XFSM_PKT_INVPTE = '4'X,

```

```
1 XFSM_PKT_LENERR = '1000'X,  
1 XFSM_PKT_LOG = '40'X,  
1 XFSM_PKT_NEXREG = '20'X,  
1 XFSM_PKT_NORMAL = '1'X,  
1 XFSM_PKT_RNDENB = '400'X,  
1 XFSM_PKT_RNGERR = '40'X,  
1 XFSM_PKT_SLFTST = '20'X,  
1 XFSM_PKT_UNQERR = '80'X
```

C
C SHRS Status Returns
C

```
PARAMETER SHRS_HALTED = '1270'X !transfer is halted  
PARAMETER SHRS_QEMPTY = '1280'X !no packet on TERMQ  
PARAMETER SHRS_NOCMDMEM = '1278'X !no cmd memory allocated
```

