

IIIIIIIIII	00000000	SSSSSSSSSS	UUU	UUU	PPPPPPPPPP
IIIIIIIIII	00000000	SSSSSSSSSS	UUU	UUU	PPPPPPPPPP
IIIIIIIIII	00000000	SSSSSSSSSS	UUU	UUU	PPPPPPPPPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
III	000	SSS	UUU	UUU	PPP
IIIIIIIIII	00000000	SSSSSSSSSS	UUUUUUUUUU	UUUUUUUUUU	PPP
IIIIIIIIII	00000000	SSSSSSSSSS	UUUUUUUUUU	UUUUUUUUUU	PPP
IIIIIIIIII	00000000	SSSSSSSSSS	UUUUUUUUUU	UUUUUUUUUU	PPP

```

DDDDDDDD  RRRRRRRR  DDDDDDDD  EEEEEEEEE  FFFFFFFF
DDDDDDDD  RRRRRRRR  DDDDDDDD  EEEEEEEEE  FFFFFFFF
DD      DD  RR      RR  DD      DD  EE      FF
DD      DD  RR      RR  DD      DD  EE      FF
DD      DD  RR      RR  DD      DD  EE      FF
DD      DD  RR      RR  DD      DD  EE      FF
DD      DD  RRRRRRRR  DD      DD  EEEEEEEE  FFFFFFFF
DD      DD  RRRRRRRR  DD      DD  EEEEEEEE  FFFFFFFF
DD      DD  RR  RR  DD      DD  EE      FF
DD      DD  RR  RR  DD      DD  EE      FF
DD      DD  RR  RR  DD      DD  EE      FF
DD      DD  RR  RR  DD      DD  EE      FF
DDDDDDDD  RR      RR  DDDDDDDD  EEEEEEEEE  FF
DDDDDDDD  RR      RR  DDDDDDDD  EEEEEEEEE  FF

```

```

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

```

```

MM      MM      AAAAAA  RRRRRRRR
MM      MM      AAAAAA  RRRRRRRR
MMMM  MMMM  AA      AA  RR      RR
MMMM  MMMM  AA      AA  RR      RR
MM  MM  MM  AA      AA  RR      RR
MM  MM  MM  AA      AA  RR      RR
MM      MM  AA      AA  RRRRRRRR
MM      MM  AA      AA  RRRRRRRR
MM      MM  AAAAAAAAAA  RR  RR
MM      MM  AAAAAAAAAA  RR  RR
MM      MM  AA      AA  RR      RR
MM      MM  AA      AA  RR      RR
MM      MM  AA      AA  RR      RR
MM      MM  AA      AA  RR      RR

```

.IDENT 'V04-000'

```

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```

.MACRO \$\$DRDEFS

;needed constants

```

XFSV_PKT_HT = 8
XFSM_PKT_ACTBIT = ^B0100
XFSV_PKT_ACTBIT = 2

```

```

ALOCMASK = ^X1F
QUADWORD_MASK = ^B111
GRANULARITY = 7
RETRY_LIMIT = 50000
DUMMY_ADR = ^x200
PAGEMASK = ^X1FF
CMDSIZ_K = 3
CRITICAL_MASK = 1
CRITICAL_BIT = 0
TRUE = 255

```

;default values

```

DATART_DEF = 0
EFN_DEF = 21
INT_DEFAULT = 0
MODES_DEFAULT = 0

```

;offsets into command block

```

CMDSL_INPTQ = 0
CMDSL_TERMQ = 8

```

DRDEF.MAR;1

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CMD\$L_FREEQ = 16

.ENDM \$\$DRDEFS

```

      .MACRO SCTXDEF,$GBL          ;offsets into the contxt array
      $DEFINI CTX,$GBL

$DEF  CTX$Q_IOSB          ;IOSB for Startdata QIO
      .BLKQ  1

:
: Part of the command packet is stored in CONXT as each is taken
: from the TERMQ
:
$DEF  CTX$S_CONTROL      ;command and device control
      .BLKL  1
$DEF  CTX$S_BYTECNT      ;size of far-end buffer
      .BLKL  1
$DEF  CTX$S_BFRVA        ;virtual addr of far-end bfr
      .BLKL  1
$DEF  CTX$S_MEMCNT       ;residual memory byte count
      .BLKL  1
$DEF  CTX$S_DDICNT       ;residual DDI byte count
      .BLKL  1
$DEF  CTX$S_DSL          ;DR32 status longword
      .BLKL  1

:
: end of command packet
:

:
: The next part of the CONXT array consists of the command table which
: is an input argument for the Startdata QIO
:
$DEF  CTX$S_CMDSIZ       ;size of command block
      .BLKL  1
$DEF  CTX$S_CMDBLK       ;address of command block
      .BLKL  1
$DEF  CTX$S_DATASIZ      ;size of data block
      .BLKL  1
$DEF  CTX$S_DATABLK      ;address of data block
      .BLKL  1
$DEF  CTX$S_PRE_AST      ;address of AST routine
      .BLKL  1
$DEF  CTX$S_PRE_PARM     ;AST parameter
      .BLKL  1
$DEF  CTX$S_DATART       ;control setting of internal clk
      .BLKB  1
$DEF  CTX$S_CMTFLAGS     ;flags for driver
      .BLKB  1
      .BLKW  1          ;blank word
$DEF  CTX$S_GOBITADR     ;addr to contain addr of go bit
      .BLKL  1

:
: end of command table
:
:

```

; Now define miscellaneous context values

```
$DEF CTXSW_NUMBUF      .BLKW 1      ;# of bfrs in user's array
$DEF CTXSW_EFN        .BLKW 1      ;event flag number
$DEF CTXSL_PKTAST     .BLKW 1      ;user's AST routine
$DEF CTXSL_ASTPARM    .BLKL 1      ;user's AST parameter
$DEF CTXSL_BUFSIZ     .BLKL 1      ;default user bfr size (bytes)
$DEF CTXSL_IDEVMSG    .BLKL 1      ;input device message array
$DEF CTXSL_ILOGMSG    .BLKL 1      ;input log message array
$DEF CTXSW_ILOGSIZ    .BLKW 1      ;size in bytes of ILOGMSG
$DEF CTXSW_IDEVSIZ    .BLKW 1      ;size in bytes of IDEVMSG
$DEF CTXSL_FREELIST   .BLKW 1      ;ptr to list of free cmd mem

$DEFEND CTX,$GBL,DEF

CTXSB_CMDTBL = CTXSL_CMDSIZ

.ENDM $CTXDEF
.END
```

