```
IIIIIIIII      000000000       SSSSSSSSSSS   UUU        UUU  PPPPPPPPPPP
IIIIIIIII      000000000       SSSSSSSSSSS   UUU        UUU  PPPPPPPPPPP
IIIIIIIII      000000000       SSSSSSSSSSS   UUU        UUU  PPPPPPPPPPP
   III         000     000     SSS          UUU        UUU  PPP         PPP
   III         000     000     SSS          UUU        UUU  PPP         PPP
   III         000     000     SSS          UUU        UUU  PPP         PPP
   III         000     000     SSS          UUU        UUU  PPP         PPP
   III         000     000     SSS          UUU        UUU  PPP         PPP
   III         000     000               SSSSSSSS   UUU        UUU  PPPPPPPPPPP
   III         000     000               SSSSSSSS   UUU        UUU  PPPPPPPPPPP
   III         000     000               SSSSSSSS   UUU        UUU  PPPPPPPPPPP
   III         000     000                      SSS  UUU        UUU  PPP
   III         000     000                      SSS  UUU        UUU  PPP
   III         000     000                      SSS  UUU        UUU  PPP
   III         000     000                      SSS  UUU        UUU  PPP
   III         000     000                      SSS  UUU        UUU  PPP
IIIIIIIII      000000000     SSSSSSSSSSS   UUUUUUUUUUUUU  PPP
IIIIIIIII      000000000     SSSSSSSSSSS   UUUUUUUUUUUUU  PPP
IIIIIIIII      000000000     SSSSSSSSSSS   UUUUUUUUUUUUU  PPP
```

```
DDDDDDDD   RRRRRRRR   DDDDDDDD   EEEEEEEEEE   FFFFFFFFFF
DDDDDDDD   RRRRRRRR   DDDDDDDD   EEEEEEEEEE   FFFFFFFFFF
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   EEEEEEEEEE   FF          ::::
DDDDDDDD   RR     RR  DDDDDDDD   EEEEEEEEEE   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

XF$V_PKT_HT = 8
XF$M_PKT_ACTBIT = ^B0100
XF$V_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

CMD$L_INPTQ = 0
CMD$L_TERMQ = 8
```

XF$
V04

```
CMD$L_FREEQ = 16
        .ENDM   $$DRDEFS
```

```
        .MACRO  $CTXDEF,$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 CONTXT as each is taken
; from the TERMQ
$DEF    CTX$L_CONTROL                        ;command and device control
                        .BLKL   1
$DEF    CTX$L_BYTECNT                        ;size of far-end buffer
                        .BLKL   1
$DEF    CTX$L_BFRVA                          ;virtual addr of far-end bfr
                        .BLKL   1
$DEF    CTX$L_MEMCNT                         ;residual memory byte count
                        .BLKL   1
$DEF    CTX$L_DDICNT                         ;residual DDI byte count
                        .BLKL   1
$DEF    CTX$L_DSL                            ;DR32 status longword
                        .BLKL   1
;
; end of command packet
;


;
; The next part of the CONTXT array consists of the command table which
; is an input argument for the Startdata QIO
$DEF    CTX$L_CMDSIZ                         ;size of command block
                        .BLKL   1
$DEF    CTX$L_CMDBLK                         ;address of command block
                        .BLKL   1
$DEF    CTX$L_DATASIZ                        ;size of data block
                        .BLKL   1
$DEF    CTX$L_DATABLK                        ;address of data block
                        .BLKL   1
$DEF    CTX$L_PRE_AST                        ;address of AST routine
                        .BLKL   1
$DEF    CTX$L_PRE_PARM                       ;AST parameter
                        .BLKL   1
$DEF    CTX$B_DATART                         ;control setting of internal clk
                        .BLKB   1
$DEF    CTX$B_CMTFLAGS                       ;flags for driver
                        .BLKB   1
                                             ;blank word
                        .BLKW   1
$DEF    CTX$L_GOBITADR                       ;addr to contain addr of go bit
                        .BLKL   1
;
; end of command table
;

;
```

```
; Now define miscellaneous context values
;
$DEF    CTX$W_NUMBUF                            ;# of bfrs in user's array
                        .BLKW   1
$DEF    CTX$W_EFN                               ;event flag number
                        .BLKW   1
$DEF    CTX$L_PKTAST                            ;user's AST routine
                        .BLKL   1
$DEF    CTX$L_ASTPARM                           ;user's AST parameter
                        .BLKL   1
$DEF    CTX$L_BUFSIZ                            ;default user bfr size (bytes)
                        .BLKL   1
$DEF    CTX$L_IDEVMSG                           ;input device message array
                        .BLKL   1
$DEF    CTX$L_ILOGMSG                           ;input log message array
                        .BLKL   1
$DEF    CTX$W_ILOGSIZ                           ;size in bytes of ILOGMSG
                        .BLKW   1
$DEF    CTX$W_IDEVSIZ                           ;size in bytes of IDEVMSG
                        .BLKW   1
$DEF    CTX$L_FREELIST                          ;ptr to list of free cmd mem
                        .BLKL   1

        $DEFEND CTX,$GBL,DEF

CTX$B_CMDTBL = CTX$L_CMDSIZ

        .ENDM   $CTXDEF
        .END
```

LASWEEP
LIS

XFDEF
FOR

LASNDLDRQ
LIS

LABUFFER
LIS

JOBCTL

JOBCTL
MAP

JOBCTLDEF
REQ

DRSUP
LIS

SYSQUEDEF
SDL

IOSUP

ACCOUNTNG
LIS

ORDEF
MAR