MPX

Generated by Doxygen 1.7.3

Sat Feb 19 2011 22:40:36

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Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

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Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

mpx/mpx.c (MPX Main File) 9
mpx/mpx_sh.c (MPX Shell, aka Command Handler) 10
mpx/mpx_sh.h 10
mpx/mpx_util.c (Various utility functions used by all of MPX) 11
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Chapter 3

Data Structure Documentation

3.1 context Struct Reference

Data Fields

- word BP
- word DI
- word SI
- word DS
- word ES
- word DX
- word CX
- word BX
- word AX
- word IP
- word CS
- word FLAGS

3.1.1 Detailed Description

Definition at line 64 of file trmdrive.c.

3.1.2 Field Documentation

3.1.2.1 word AX

Definition at line 66 of file trmdrive.c.

3.1.2.2 word BP

Definition at line 65 of file trmdrive.c.

3.1.2.3 word BX

Definition at line 66 of file trmdrive.c.

3.1.2.4 word CS

Definition at line 67 of file trmdrive.c.

3.1.2.5 word CX

Definition at line 66 of file trmdrive.c.

3.1.2.6 word DI

Definition at line 65 of file trmdrive.c.

3.1.2.7 word DS

Definition at line 65 of file trmdrive.c.

3.1.2.8 word DX

Definition at line 66 of file trmdrive.c.

3.1.2.9 word ES

Definition at line 65 of file trmdrive.c.

3.1.2.10 word FLAGS

Definition at line 67 of file trmdrive.c.

3.1.2.11 word IP

Definition at line 67 of file trmdrive.c.

3.1.2.12 word SI

Definition at line 65 of file trmdrive.c.

The documentation for this struct was generated from the following file:

- mpx/supt/r6/trmdrive.c

3.2 date_rec Struct Reference

```
#include <mpx_supt.h>
```

Data Fields

- int month
- int day
- int year

3.2.1 Detailed Description

Definition at line 123 of file mpx_supt.h.

3.2.2 Field Documentation

3.2.2.1 int day

Definition at line 125 of file mpx_supt.h.

3.2.2.2 int month

Definition at line 124 of file mpx_supt.h.

3.2.2.3 int year

Definition at line 126 of file mpx_supt.h.

The documentation for this struct was generated from the following file:

- mpx/supt/mpx_supt.h

3.3 params Struct Reference

Data Fields

- int op_code
- int device_id
- char * buf_p
- int * count_p

3.3.1 Detailed Description

Definition at line 108 of file mpx_supt.c.

3.3.2 Field Documentation

3.3.2.1 char* buf_p

Definition at line 111 of file mpx_supt.c.

3.3.2.2 int* count_p

Definition at line 112 of file mpx_supt.c.

3.3.2.3 int device_id

Definition at line 110 of file mpx_supt.c.

3.3.2.4 int op_code

Definition at line 109 of file mpx_supt.c.

The documentation for this struct was generated from the following file:

- mpx/supt/mpx_supt.c

Chapter 4

File Documentation

4.1 mpx/mpx.c File Reference

MPX Main File.

```
#include "supt/mpx_supt.h"
#include "mpx_util.h"
#include "mpx_sh.h"
```

Functions

- int main (int argc, char ∗argv[ ])

4.1.1 Detailed Description

MPX Main File. This file contains the start-of-execution, i.e. function main(), for MPX.

Definition in file mpx.c.

4.1.2 Function Documentation

4.1.2.1 int main (int *argc*, char ∗ *argv[ ]*)

This is the start-of-execution for the MPX executable.

Definition at line 35 of file mpx.c.

4.2 mpx/mpx_sh.c File Reference

MPX Shell, aka Command Handler.

```
#include "supt/mpx_supt.h"
#include "mpx_util.h"
```

Functions

- void mpx_shell (void)

4.2.1 Detailed Description

MPX Shell, aka Command Handler. This file contains the functions etc. to implement the user interface for MPX.

Definition in file mpx_sh.c.

4.2.2 Function Documentation

4.2.2.1 void mpx_shell (void)

This function implements the MPX shell (command-line user interface).

mpx_shell() never returns!

A buffer to hold the command line input by the user. We include space for the ,

, and \0 characters, if any.

Buffer size argument for passing to sys_req().

Used to capture the return value of sys_req().

Definition at line 40 of file mpx_sh.c.

4.3 mpx/mpx_sh.h File Reference

Functions

- void mpx_shell (void)

4.3.1 Function Documentation

4.3.1.1 void mpx_shell (void)

This function implements the MPX shell (command-line user interface).

mpx_shell() never returns!

A buffer to hold the command line input by the user. We include space for the ,

, and \0 characters, if any.

Buffer size argument for passing to sys_req().

Used to capture the return value of sys_req().

Definition at line 40 of file mpx_sh.c.

4.4 mpx/mpx_util.c File Reference

Various utility functions used by all of MPX.

```
#include "supt/mpx_supt.h"
```

4.4.1 Detailed Description

Various utility functions used by all of MPX. This file contains the functions etc. to implement the user interface for MPX.

Definition in file mpx_util.c.

4.5 mpx/mpx_util.h File Reference

Defines

- #define MAX_LINE 255

4.5.1 Define Documentation

4.5.1.1 #define MAX_LINE 255

Definition at line 4 of file mpx_util.h.

4.6 mpx/supt/mpx_supt.c File Reference

```
#include "mpx_supt.h"
#include <stdlib.h>
#include <dos.h>
#include <dir.h>
#include <errno.h>
```

```
#include <conio.h>
#include <alloc.h>
```

Data Structures

- struct params

Defines

- #define VEC_ADDR (0x60L∗4)
- #define MAX_ALLOC 200
- #define MAX_XPOS 79
- #define MAX_YPOS 24
- #define MAX_PATH_SIZE 50
- #define HEADER_SIZE 32

Typedefs

- typedef unsigned char byte
- typedef unsigned int word
- typedef unsigned long longword
- typedef byte ∗ address
- typedef struct params params

Functions

- int sys_init (int modules)
- void sys_exit (void)
- int sys_set_vec (void interrupt(∗handler)())
- int sys_req (int op_code, int device_id, char ∗buf_p, int ∗count_p)
- void ∗ sys_alloc_mem (size_t size)
- int sys_free_mem (void ∗ptr)
- void sys_get_date (date_rec ∗date_p)
- int sys_set_date (date_rec ∗date_p)
- int sys_open_dir (char path_name[ ])
- int sys_get_entry (char name_buf[ ], int buf_size, long ∗file_size_p)
- int sys_close_dir (void)
- int sys_check_program (char dir_name[ ], char prog_name[ ], int ∗prog_len_p, int ∗start_offset_p)
- int sys_load_program (void ∗load_addr, int max_size, char dir_name[ ], char prog_name[ ])

4.6.1 Define Documentation

4.6.1.1 #define HEADER_SIZE 32

Definition at line 853 of file mpx_supt.c.

4.6.1.2 #define MAX_ALLOC 200

Definition at line 92 of file mpx_supt.c.

4.6.1.3 #define MAX_PATH_SIZE 50

Definition at line 97 of file mpx_supt.c.

4.6.1.4 #define MAX_XPOS 79

Definition at line 94 of file mpx_supt.c.

4.6.1.5 #define MAX_YPOS 24

Definition at line 95 of file mpx_supt.c.

4.6.1.6 #define VEC_ADDR (0x60L∗4)

Definition at line 90 of file mpx_supt.c.

4.6.2 Typedef Documentation

4.6.2.1 typedef byte∗ address

Definition at line 106 of file mpx_supt.c.

4.6.2.2 typedef unsigned char byte

Definition at line 103 of file mpx_supt.c.

4.6.2.3 typedef unsigned long longword

Definition at line 105 of file mpx_supt.c.

4.6.2.4 typedef struct params params

4.6.2.5 typedef unsigned int word

Definition at line 104 of file mpx_supt.c.

4.6.3 Function Documentation

4.6.3.1 void* sys_alloc_mem (size_t *size*)

Definition at line 500 of file mpx_supt.c.

4.6.3.2 int sys_check_program (char *dir_name[],* char *prog_name[],* int * *prog_len_p,* int * *start_offset_p*)

Definition at line 855 of file mpx_supt.c.

4.6.3.3 int sys_close_dir (void)

Definition at line 827 of file mpx_supt.c.

4.6.3.4 void sys_exit (void)

Definition at line 214 of file mpx_supt.c.

4.6.3.5 int sys_free_mem (void * *ptr*)

Definition at line 572 of file mpx_supt.c.

4.6.3.6 void sys_get_date (date_rec * *date_p*)

Definition at line 626 of file mpx_supt.c.

4.6.3.7 int sys_get_entry (char *name_buf[],* int *buf_size,* long * *file_size_p*)

Definition at line 756 of file mpx_supt.c.

4.6.3.8 int sys_init (int *modules*)

Definition at line 163 of file mpx_supt.c.

4.6.3.9 int sys_load_program (void * *load_addr*, int *max_size*, char *dir_name[]*, char *prog_name[]*)

Definition at line 948 of file mpx_supt.c.

4.6.3.10 int sys_open_dir (char *path_name[]*)

Definition at line 687 of file mpx_supt.c.

4.6.3.11 int sys_req (int *op_code*, int *device_id*, char * *buf_p*, int * *count_p*)

Definition at line 304 of file mpx_supt.c.

4.6.3.12 int sys_set_date (date_rec * *date_p*)

Definition at line 656 of file mpx_supt.c.

4.6.3.13 int sys_set_vec (void interrupt(*)() *handler*)

Definition at line 245 of file mpx_supt.c.

4.6.4 Variable Documentation

4.6.4.1 void* aligned

Definition at line 137 of file mpx_supt.c.

4.6.4.2 void* original

Definition at line 136 of file mpx_supt.c.

4.7 mpx/supt/mpx_supt.h File Reference

```
#include <stdio.h>
#include <ctype.h>
#include <string.h>
```

Data Structures

- struct date_rec

Defines

- #define TRUE 1
- #define FALSE 0
- #define SET 1
- #define RESET 0
- #define NULCH ('\0')
- #define OK 0
- #define ERR_SUP_INVDEV (-101)
- #define ERR_SUP_INVOPC (-102)
- #define ERR_SUP_INVPOS (-103)
- #define ERR_SUP_RDFAIL (-104)
- #define ERR_SUP_WRFAIL (-105)
- #define ERR_SUP_INVMEM (-106)
- #define ERR_SUP_FRFAIL (-107)
- #define ERR_SUP_INVDAT (-108)
- #define ERR_SUP_DATNCH (-109)
- #define ERR_SUP_INVDIR (-110)
- #define ERR_SUP_DIROPN (-111)
- #define ERR_SUP_DIRNOP (-112)
- #define ERR_SUP_NOENTR (-113)
- #define ERR_SUP_NAMLNG (-114)
- #define ERR_SUP_DIRCLS (-115)
- #define ERR_SUP_LDFAIL (-116)
- #define ERR_SUP_FILNFD (-117)
- #define ERR_SUP_FILINV (-118)
- #define ERR_SUP_PROGSZ (-119)
- #define ERR_SUP_LDADDR (-120)
- #define ERR_SUP_NOMEM (-121)
- #define ERR_SUP_MFREE (-122)
- #define ERR_SUP_INVHAN (-123)
- #define IDLE 0
- #define READ 1
- #define WRITE 2
- #define CLEAR 3
- #define GOTOXY 4
- #define EXIT 5
- #define NO_DEV 0
- #define TERMINAL 1
- #define PRINTER 2
- #define COM_PORT 3
- #define NUM_DEVS 3
- #define BASE_MASK 0x700F
- #define OPT_MASK 0x0FF0
- #define MODULE_R1 0x0001
- #define MODULE_R2 0x0002
- #define MODULE_R3 0x0004

- #define MODULE_R4 0x0008
- #define MODULE_O1 0x0010
- #define MODULE_O2 0x0020
- #define MODULE_O3 0x0040
- #define MODULE_O4 0x0080
- #define MODULE_O5 0x0100
- #define MODULE_O6 0x0200
- #define MODULE_O7 0x0400
- #define MODULE_O8 0x0800
- #define MODULE_F 0x4000

Typedefs

- typedef int flag

Functions

- int sys_init (int modules)
- void sys_exit (void)
- int sys_set_vec (void interrupt(*handler)())
- int sys_req (int op_code, int device_id, char *buf_p, int *count_p)
- void * sys_alloc_mem (size_t size)
- int sys_free_mem (void *ptr)
- void sys_get_date (date_rec *date_p)
- int sys_set_date (date_rec *date_p)
- int sys_open_dir (char dir_name[ ])
- int sys_get_entry (char name_buf[ ], int buf_size, long *file_size_p)
- int sys_close_dir (void)
- int sys_check_program (char dir_name[ ], char prog_name[ ], int *prog_len, int *start_offset)
- int sys_load_program (void *load_addr, int max_size, char dir_name[ ], char prog_name[ ])

4.7.1 Define Documentation

4.7.1.1 #define BASE_MASK 0x700F

Definition at line 99 of file mpx_supt.h.

4.7.1.2 #define CLEAR 3

Definition at line 86 of file mpx_supt.h.

4.7.1.3 #define COM_PORT 3

Definition at line 94 of file mpx_supt.h.

4.7.1.4 #define ERR_SUP_DATNCH (-109)

Definition at line 66 of file mpx_supt.h.

4.7.1.5 #define ERR_SUP_DIRCLS (-115)

Definition at line 72 of file mpx_supt.h.

4.7.1.6 #define ERR_SUP_DIRNOP (-112)

Definition at line 69 of file mpx_supt.h.

4.7.1.7 #define ERR_SUP_DIROPN (-111)

Definition at line 68 of file mpx_supt.h.

4.7.1.8 #define ERR_SUP_FILINV (-118)

Definition at line 75 of file mpx_supt.h.

4.7.1.9 #define ERR_SUP_FILNFD (-117)

Definition at line 74 of file mpx_supt.h.

4.7.1.10 #define ERR_SUP_FRFAIL (-107)

Definition at line 64 of file mpx_supt.h.

4.7.1.11 #define ERR_SUP_INVDAT (-108)

Definition at line 65 of file mpx_supt.h.

4.7.1.12 #define ERR_SUP_INVDEV (-101)

Definition at line 58 of file mpx_supt.h.

4.7.1.13 #define ERR_SUP_INVDIR (-110)

Definition at line 67 of file mpx_supt.h.

4.7.1.14 #define ERR_SUP_INVHAN (-123)

Definition at line 80 of file mpx_supt.h.

4.7.1.15 #define ERR_SUP_INVMEM (-106)

Definition at line 63 of file mpx_supt.h.

4.7.1.16 #define ERR_SUP_INVOPC (-102)

Definition at line 59 of file mpx_supt.h.

4.7.1.17 #define ERR_SUP_INVPOS (-103)

Definition at line 60 of file mpx_supt.h.

4.7.1.18 #define ERR_SUP_LDADDR (-120)

Definition at line 77 of file mpx_supt.h.

4.7.1.19 #define ERR_SUP_LDFAIL (-116)

Definition at line 73 of file mpx_supt.h.

4.7.1.20 #define ERR_SUP_MFREE (-122)

Definition at line 79 of file mpx_supt.h.

4.7.1.21 #define ERR_SUP_NAMLNG (-114)

Definition at line 71 of file mpx_supt.h.

4.7.1.22 #define ERR_SUP_NOENTR (-113)

Definition at line 70 of file mpx_supt.h.

4.7.1.23 #define ERR_SUP_NOMEM (-121)

Definition at line 78 of file mpx_supt.h.

4.7.1.24 #define ERR_SUP_PROGSZ (-119)

Definition at line 76 of file mpx_supt.h.

4.7.1.25 #define ERR_SUP_RDFAIL (-104)

Definition at line 61 of file mpx_supt.h.

4.7.1.26 #define ERR_SUP_WRFAIL (-105)

Definition at line 62 of file mpx_supt.h.

4.7.1.27 #define EXIT 5

Definition at line 88 of file mpx_supt.h.

4.7.1.28 #define FALSE 0

Definition at line 50 of file mpx_supt.h.

4.7.1.29 #define GOTOXY 4

Definition at line 87 of file mpx_supt.h.

4.7.1.30 #define IDLE 0

Definition at line 83 of file mpx_supt.h.

4.7.1.31 #define MODULE_F 0x4000

Definition at line 114 of file mpx_supt.h.

4.7.1.32 #define MODULE_O1 0x0010

Definition at line 106 of file mpx_supt.h.

4.7.1.33 #define MODULE_O2 0x0020

Definition at line 107 of file mpx_supt.h.

4.7.1.34 #define MODULE_O3 0x0040

Definition at line 108 of file mpx_supt.h.

4.7.1.35 #define MODULE_O4 0x0080

Definition at line 109 of file mpx_supt.h.

4.7.1.36 #define MODULE_O5 0x0100

Definition at line 110 of file mpx_supt.h.

4.7.1.37 #define MODULE_O6 0x0200

Definition at line 111 of file mpx_supt.h.

4.7.1.38 #define MODULE_O7 0x0400

Definition at line 112 of file mpx_supt.h.

4.7.1.39 #define MODULE_O8 0x0800

Definition at line 113 of file mpx_supt.h.

4.7.1.40 #define MODULE_R1 0x0001

Definition at line 102 of file mpx_supt.h.

4.7.1.41 #define MODULE_R2 0x0002

Definition at line 103 of file mpx_supt.h.

4.7.1.42 #define MODULE_R3 0x0004

Definition at line 104 of file mpx_supt.h.

4.7.1.43 #define MODULE_R4 0x0008

Definition at line 105 of file mpx_supt.h.

4.7.1.44 #define NO_DEV 0

Definition at line 91 of file mpx_supt.h.

4.7.1.45 #define NULCH ('\0')

Definition at line 54 of file mpx_supt.h.

4.7.1.46 #define NUM_DEVS 3

Definition at line 96 of file mpx_supt.h.

4.7.1.47 #define OK 0

Definition at line 57 of file mpx_supt.h.

4.7.1.48 #define OPT_MASK 0x0FF0

Definition at line 100 of file mpx_supt.h.

4.7.1.49 #define PRINTER 2

Definition at line 93 of file mpx_supt.h.

4.7.1.50 #define READ 1

Definition at line 84 of file mpx_supt.h.

4.7.1.51 #define RESET 0

Definition at line 52 of file mpx_supt.h.

4.7.1.52 #define SET 1

Definition at line 51 of file mpx_supt.h.

4.7.1.53 #define TERMINAL 1

Definition at line 92 of file mpx_supt.h.

4.7.1.54 #define TRUE 1

Definition at line 49 of file mpx_supt.h.

4.7.1.55 #define WRITE 2

Definition at line 85 of file mpx_supt.h.

4.7.2 Typedef Documentation

4.7.2.1 typedef int flag

Definition at line 120 of file mpx_supt.h.

4.7.3 Function Documentation

4.7.3.1 void* sys_alloc_mem (size_t *size*)

Definition at line 500 of file mpx_supt.c.

4.7.3.2 int sys_check_program (char *dir_name[],* char *prog_name[],* int * *prog_len,* int * *start_offset*)

Definition at line 855 of file mpx_supt.c.

4.7.3.3 int sys_close_dir (void)

Definition at line 827 of file mpx_supt.c.

4.7.3.4 void sys_exit (void)

Definition at line 214 of file mpx_supt.c.

4.7.3.5 int sys_free_mem (void * *ptr*)

Definition at line 572 of file mpx_supt.c.

4.7.3.6 void sys_get_date (date_rec * *date_p*)

Definition at line 626 of file mpx_supt.c.

4.7.3.7 int sys_get_entry (char *name_buf[],* int *buf_size,* long * *file_size_p*)

Definition at line 756 of file mpx_supt.c.

4.7.3.8 int sys_init (int *modules*)

Definition at line 163 of file mpx_supt.c.

4.7.3.9 int sys_load_program (void * *load_addr,* int *max_size,* char *dir_name[],* char *prog_name[]*)

Definition at line 948 of file mpx_supt.c.

4.7.3.10 int sys_open_dir (char *dir_name[]*)

Definition at line 687 of file mpx_supt.c.

4.7.3.11 int sys_req (int *op_code*, int *device_id*, char * *buf_p*, int * *count_p*)

Definition at line 304 of file mpx_supt.c.

4.7.3.12 int sys_set_date (date_rec * *date_p*)

Definition at line 656 of file mpx_supt.c.

4.7.3.13 int sys_set_vec (void interrupt(*)() *handler*)

Definition at line 245 of file mpx_supt.c.

4.8 mpx/supt/r3/procs-r3.c File Reference

```
#include "mpx_supt.h"
```

Defines

- #define RC_1 1
- #define RC_2 2
- #define RC_3 3
- #define RC_4 4
- #define RC_5 5

Functions

- void test1_R3 ()
- void test2_R3 ()
- void test3_R3 ()
- void test4_R3 ()
- void test5_R3 ()

4.8.1 Define Documentation

4.8.1.1 #define RC_1 1

Definition at line 43 of file procs-r3.c.

4.8.1.2 #define RC_2 2

Definition at line 44 of file procs-r3.c.

4.8.1.3 #define RC_3 3

Definition at line 45 of file procs-r3.c.

4.8.1.4 #define RC_4 4

Definition at line 46 of file procs-r3.c.

4.8.1.5 #define RC_5 5

Definition at line 47 of file procs-r3.c.

4.8.2 Function Documentation

4.8.2.1 void test1_R3 ( )

Definition at line 83 of file procs-r3.c.

4.8.2.2 void test2_R3 ( )

Definition at line 106 of file procs-r3.c.

4.8.2.3 void test3_R3 ( )

Definition at line 129 of file procs-r3.c.

4.8.2.4 void test4_R3 ( )

Definition at line 152 of file procs-r3.c.

4.8.2.5 void test5_R3 ( )

Definition at line 175 of file procs-r3.c.

4.9 mpx/supt/r6/trmdrive.c File Reference

```
#include <dos.h>
#include "mpx_supt.h"
#include "trmdrive.h"
```

Data Structures

- struct context

Defines

- #define PIC_CMD 0x20
- #define PIC_MASK 0x21
- #define KBD_LEVEL 1
- #define SET 1
- #define RESET 0
- #define CR 0x0D
- #define LF 0x0A
- #define BS 0x08
- #define ESC 0x1B
- #define DEV_IDLE 0
- #define DEV_READ 1
- #define DEV_WRITE 2
- #define KBD_INTNUM (0x08 + KBD_LEVEL)
- #define OPEN_FILE 0x3D
- #define CLOSE_FILE 0x3E
- #define WRITE_FILE 0x40
- #define GET_CHAR 0x06
- #define WRITE_ONLY 0x01
- #define MAX_XPOS 79
- #define MAX_YPOS 23

Typedefs

- typedef unsigned short word
- typedef unsigned char byte
- typedef struct context context

Functions

- void interrupt kbd_ihand (void)
- void clear_scr (void)
- int goto_xy (int xval, int yval)
- void out_char (char ch)
- int trm_open (int *ef_p)
- trm_close (void)
- int trm_read (char *buf_p, int *count_p)
- int trm_write (char *buf_p, int *count_p)
- int trm_clear (void)
- int trm_gotoxy (int xval, int yval)
- void trm_getc (void)

Variables

- union REGS regs
- struct SREGS segs
- struct {
  flag open
  int status
  int * eflag_p
  char * out_buf_p
  int * out_count_p
  int out_max
  int out_ctr
  char * in_buf_p
  int * in_count_p
  int in_max
  int in_ctr
  } dcb_trm
- void interrupt(* old_kbhand_p)(void) = NULL
- int con_handle
- int pendc = 0

4.9.1 Define Documentation

4.9.1.1 #define BS 0x08

Definition at line 86 of file trmdrive.c.

4.9.1.2 #define CLOSE_FILE 0x3E

Definition at line 99 of file trmdrive.c.

4.9.1.3 #define CR 0x0D

Definition at line 84 of file trmdrive.c.

4.9.1.4 #define DEV_IDLE 0

Definition at line 90 of file trmdrive.c.

4.9.1.5 #define DEV_READ 1

Definition at line 91 of file trmdrive.c.

4.9.1.6 #define DEV_WRITE 2

Definition at line 92 of file trmdrive.c.

4.9.1.7 #define ESC 0x1B

Definition at line 87 of file trmdrive.c.

4.9.1.8 #define GET_CHAR 0x06

Definition at line 101 of file trmdrive.c.

4.9.1.9 #define KBD_INTNUM (0x08 + KBD_LEVEL)

Definition at line 95 of file trmdrive.c.

4.9.1.10 #define KBD_LEVEL 1

Definition at line 78 of file trmdrive.c.

4.9.1.11 #define LF 0x0A

Definition at line 85 of file trmdrive.c.

4.9.1.12 #define MAX_XPOS 79

Definition at line 105 of file trmdrive.c.

4.9.1.13 #define MAX_YPOS 23

Definition at line 106 of file trmdrive.c.

4.9.1.14 #define OPEN_FILE 0x3D

Definition at line 98 of file trmdrive.c.

4.9.1.15 #define PIC_CMD 0x20

Definition at line 74 of file trmdrive.c.

4.9.1.16 #define PIC_MASK 0x21

Definition at line 75 of file trmdrive.c.

4.9.1.17 #define RESET 0

Definition at line 83 of file trmdrive.c.

4.9.1.18 #define SET 1

Definition at line 82 of file trmdrive.c.

4.9.1.19 #define WRITE_FILE 0x40

Definition at line 100 of file trmdrive.c.

4.9.1.20 #define WRITE_ONLY 0x01

Definition at line 103 of file trmdrive.c.

4.9.2 Typedef Documentation

4.9.2.1 typedef unsigned char byte

Definition at line 62 of file trmdrive.c.

4.9.2.2 typedef struct context context

4.9.2.3 typedef unsigned short word

Definition at line 61 of file trmdrive.c.

4.9.3 Function Documentation

4.9.3.1 void clear_scr (void)

Definition at line 585 of file trmdrive.c.

4.9.3.2 int goto_xy (int *xval*, int *yval*)

Definition at line 609 of file trmdrive.c.

4.9.3.3 void interrupt kbd_ihand (void)

Definition at line 447 of file trmdrive.c.

4.9.3.4 void out_char (char *ch*)

Definition at line 652 of file trmdrive.c.

4.9.3.5 int trm_clear (void)

Definition at line 393 of file trmdrive.c.

4.9.3.6 trm_close (void)

Definition at line 235 of file trmdrive.c.

4.9.3.7 void trm_getc (void)

Definition at line 480 of file trmdrive.c.

4.9.3.8 int trm_gotoxy (int *xval,* int *yval*)

Definition at line 422 of file trmdrive.c.

4.9.3.9 int trm_open (int * *ef_p*)

Definition at line 176 of file trmdrive.c.

4.9.3.10 int trm_read (char * *buf_p,* int * *count_p*)

Definition at line 282 of file trmdrive.c.

4.9.3.11 int trm_write (char * *buf_p,* int * *count_p*)

Definition at line 331 of file trmdrive.c.

4.9.4 Variable Documentation

4.9.4.1 int con_handle

Definition at line 131 of file trmdrive.c.

4.9.4.2 struct { ... } dcb_trm

4.9.4.3 int* eflag_p

Definition at line 116 of file trmdrive.c.

4.9.4.4 char* in_buf_p

Definition at line 121 of file trmdrive.c.

4.9.4.5 int* in_count_p

Definition at line 122 of file trmdrive.c.

4.9.4.6 int in_ctr

Definition at line 124 of file trmdrive.c.

4.9.4.7 int in_max

Definition at line 123 of file trmdrive.c.

4.9.4.8 void interrupt(* old_kbhand_p)(void) = NULL

Definition at line 128 of file trmdrive.c.

4.9.4.9 flag open

Definition at line 114 of file trmdrive.c.

4.9.4.10 char* out_buf_p

Definition at line 117 of file trmdrive.c.

4.9.4.11 int* out_count_p

Definition at line 118 of file trmdrive.c.

4.9.4.12 int out_ctr

Definition at line 120 of file trmdrive.c.

4.9.4.13 int out_max

Definition at line 119 of file trmdrive.c.

4.9.4.14 int pendc = 0

Definition at line 134 of file trmdrive.c.

4.9.4.15 union REGS regs

Definition at line 109 of file trmdrive.c.

4.9.4.16 struct SREGS segs

Definition at line 110 of file trmdrive.c.

4.9.4.17 int status

Definition at line 115 of file trmdrive.c.

4.10 mpx/supt/r6/trmdrive.h File Reference

Defines

- #define ERR_TRM_OP_INVEFP (-101)
- #define ERR_TRM_OP_ALROPN (-102)
- #define ERR_TRM_OP_OPFAIL (-103)
- #define ERR_TRM_CL_NOTOPN (-201)
- #define ERR_TRM_CL_CLFAIL (-202)
- #define ERR_TRM_RD_NOTOPN (-301)
- #define ERR_TRM_RD_INVBUF (-302)
- #define ERR_TRM_RD_INVCNT (-303)
- #define ERR_TRM_RD_DVBUSY (-304)
- #define ERR_TRM_WR_NOTOPN (-401)
- #define ERR_TRM_WR_INVBUF (-402)
- #define ERR_TRM_WR_INVCNT (-403)
- #define ERR_TRM_WR_DVBUSY (-404)
- #define ERR_TRM_XY_INVPOS (-601)

Functions

- int trm_open (int *ef_p)
- int trm_close (void)
- int trm_read (char *buf_p, int *count_p)
- void trm_getc (void)
- int trm_write (char *buf_p, int *count_p)
- int trm_clear (void)
- int trm_gotoxy (int xpos, int ypos)

4.10.1 Define Documentation

4.10.1.1 #define ERR_TRM_CL_CLFAIL (-202)

Definition at line 39 of file trmdrive.h.

4.10.1.2 #define ERR_TRM_CL_NOTOPN (-201)

Definition at line 38 of file trmdrive.h.

4.10.1.3 #define ERR_TRM_OP_ALROPN (-102)

Definition at line 35 of file trmdrive.h.

4.10.1.4 #define ERR_TRM_OP_INVEFP (-101)

Definition at line 34 of file trmdrive.h.

4.10.1.5 #define ERR_TRM_OP_OPFAIL (-103)

Definition at line 36 of file trmdrive.h.

4.10.1.6 #define ERR_TRM_RD_DVBUSY (-304)

Definition at line 44 of file trmdrive.h.

4.10.1.7 #define ERR_TRM_RD_INVBUF (-302)

Definition at line 42 of file trmdrive.h.

4.10.1.8 #define ERR_TRM_RD_INVCNT (-303)

Definition at line 43 of file trmdrive.h.

4.10.1.9 #define ERR_TRM_RD_NOTOPN (-301)

Definition at line 41 of file trmdrive.h.

4.10.1.10 #define ERR_TRM_WR_DVBUSY (-404)

Definition at line 49 of file trmdrive.h.

4.10.1.11 #define ERR_TRM_WR_INVBUF (-402)

Definition at line 47 of file trmdrive.h.

4.10.1.12 #define ERR_TRM_WR_INVCNT (-403)

Definition at line 48 of file trmdrive.h.

4.10.1.13 #define ERR_TRM_WR_NOTOPN (-401)

Definition at line 46 of file trmdrive.h.

4.10.1.14 #define ERR_TRM_XY_INVPOS (-601)

Definition at line 51 of file trmdrive.h.

4.10.2 Function Documentation

4.10.2.1 int trm_clear (void)

Definition at line 393 of file trmdrive.c.

4.10.2.2 int trm_close (void)

Definition at line 235 of file trmdrive.c.

4.10.2.3 void trm_getc (void)

Definition at line 480 of file trmdrive.c.

4.10.2.4 int trm_gotoxy (int *xpos*, int *ypos*)

Definition at line 422 of file trmdrive.c.

4.10.2.5 int trm_open (int * *ef_p*)

Definition at line 176 of file trmdrive.c.

4.10.2.6 int trm_read (char * *buf_p*, int * *count_p*)

Definition at line 282 of file trmdrive.c.

4.10.2.7 int trm_write (char * *buf_p*, int * *count_p*)

Definition at line 331 of file trmdrive.c.

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