My Project

Generated by Doxygen 1.8.1.2

Thu Sep 17 2015 19:19:33

Contents

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

Chapter 3

Class Documentation

3.1 CORNER_LIST Struct Reference

Public Attributes

- int x
- int y
- int info
- int dx
- int dy
- int l

3.1.1 Member Data Documentation

3.1.1.1 int CORNER_LIST::dx

3.1.1.2 int CORNER_LIST::dy

3.1.1.3 int CORNER_LIST::l

3.1.1.4 int CORNER_LIST::info

3.1.1.5 int CORNER_LIST::x

3.1.1.6 int CORNER_LIST::y

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

- susan.c

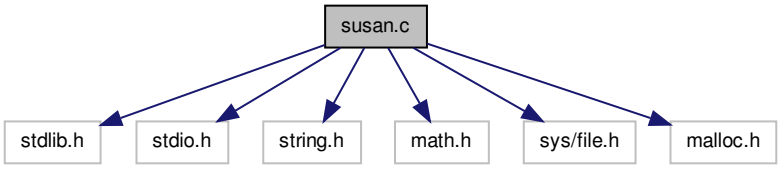
Chapter 4

File Documentation

4.1 susan.c File Reference

```
#include <stdlib.h>
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <sys/file.h>
#include <malloc.h>
```

Include dependency graph for susan.c:



Classes

- struct CORNER_LIST

Macros

- #define SEVEN_SUPP /* size for non-max corner suppression; SEVEN_SUPP or FIVE_SUPP */
- #define MAX_CORNERS 15000 /* max corners per frame */
- #define exit_error(IFB, IFC) { fprintf(stderr,IFB,IFC); exit(0); }
- #define FTOI(a) ((a) < 0 ? ((int)(a-0.5)) : ((int)(a+0.5)))

Typedefs

- typedef int TOTAL_TYPE
- typedef unsigned char uchar

Functions

- usage ()
- int getint (FILE *fd)
- void get_image (filename, unsigned char **in, int *x_size, int *y_size)
- put_image (filename,*in, int x_size, int y_size)
- int_to_uchar (int *r, uchar *in, int size)
- void setup_brightness_lut (uchar **bp, int thresh, int form)
- susan_principle (uchar *in, int *r, uchar *bp, int max_no, int x_size, int y_size)
- susan_principle_small (uchar *in, int *r, uchar *bp, int max_no, int x_size, int y_size)
- uchar median (uchar *in, int i, int j, int x_size)
- enlarge (uchar **in, uchar *tmp_image, int *x_size, int *y_size, int border)
- void susan_smoothing (int three_by_three, uchar *in, float dt, int x_size, int y_size, uchar *bp)
- edge_draw (uchar *in, uchar *mid, int x_size, int y_size, int drawing_mode)
- susan_thin (int *r, uchar *mid, int x_size, int y_size)
- susan_edges (uchar *in, int *r, uchar *mid, uchar *bp, int max_no, int x_size, int y_size)
- susan_edges_small (uchar *in, int *r, uchar *mid, uchar *bp, int max_no, int x_size, int y_size)
- corner_draw (uchar *in, CORNER_LIST corner_list, int x_size, int drawing_mode)
- susan_corners (uchar *in, int *r, uchar *bp, int max_no, CORNER_LIST corner_list, int x_size, int y_size)
- susan_corners_quick (uchar *in, int *r, uchar *bp, int max_no, CORNER_LIST corner_list, int x_size, int y_size)
- main (int argc, argv)

4.1.1 Macro Definition Documentation

4.1.1.1 #define exit_error(*IFB, IFC*) { fprintf(stderr,IFB,IFC); exit(0); }

4.1.1.2 #define FTOI(*a*) ((a) < 0 ? ((int)(a-0.5)) : ((int)(a+0.5)))

4.1.1.3 #define MAX_CORNERS 15000 /* max corners per frame */

4.1.1.4 #define SEVEN_SUPP /* size for non-max corner suppression; SEVEN_SUPP or FIVE_SUPP */

4.1.2 Typedef Documentation

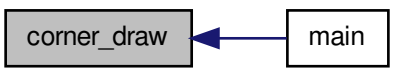
4.1.2.1 typedef int TOTAL_TYPE

4.1.2.2 typedef unsigned char uchar

4.1.3 Function Documentation

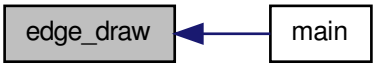
4.1.3.1 corner_draw (uchar * *in,* CORNER_LIST *corner_list,* int *x_size,* int *drawing_mode*)

Here is the caller graph for this function:



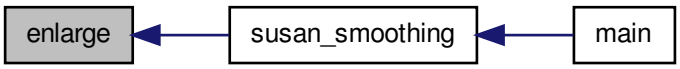
4.1.3.2 edge_draw (uchar * *in*, uchar * *mid*, int *x_size*, int *y_size*, int *drawing_mode*)

Here is the caller graph for this function:



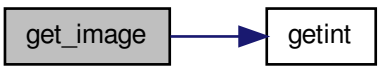
4.1.3.3 enlarge (uchar ** *in*, uchar * *tmp_image*, int * *x_size*, int * *y_size*, int *border*)

Here is the caller graph for this function:

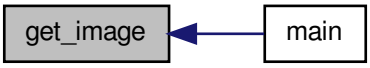


4.1.3.4 void get_image (filename , unsigned char ** *in*, int * *x_size*, int * *y_size*)

Here is the call graph for this function:

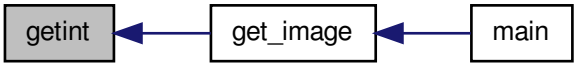


Here is the caller graph for this function:



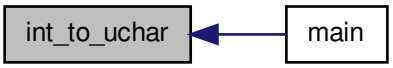
4.1.3.5 int getint (FILE * *fd*)

Here is the caller graph for this function:



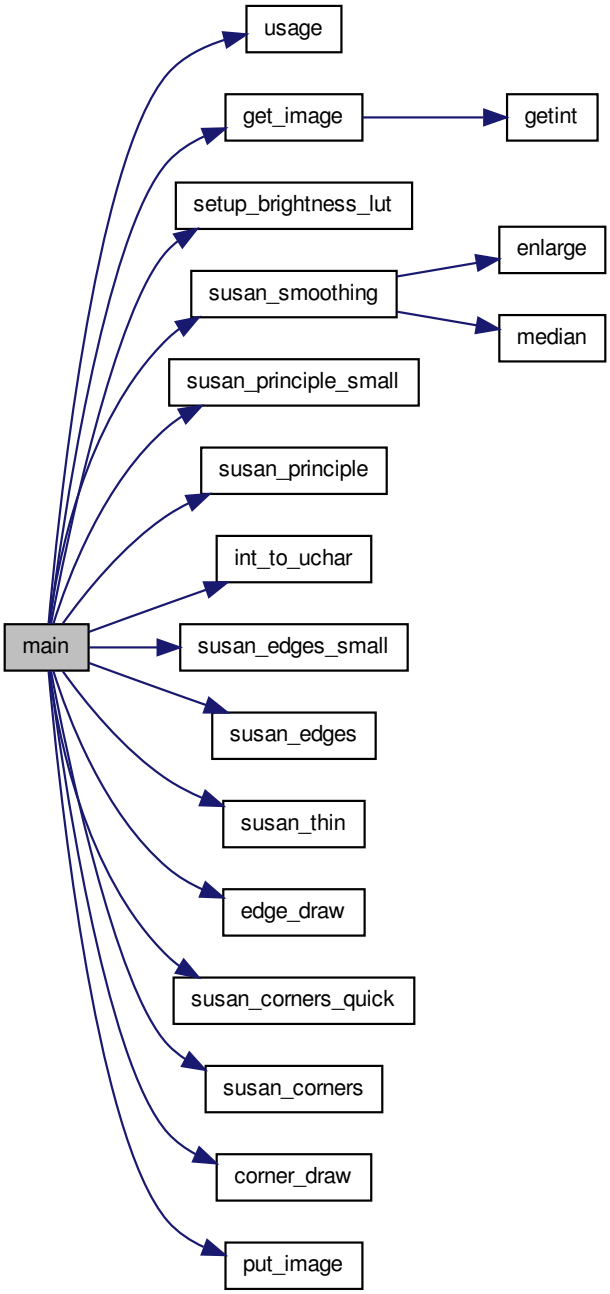
4.1.3.6 int_to_uchar (int * *r*, uchar * *in*, int *size*)

Here is the caller graph for this function:



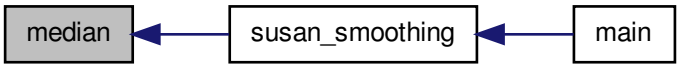
4.1.3.7 main (int *argc*, argv)

Here is the call graph for this function:



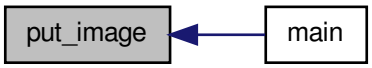
4.1.3.8 uchar median (uchar * *in*, int *i*, int *j*, int *x_size*)

Here is the caller graph for this function:



4.1.3.9 put_image (filename , * *in*, int *x_size*, int *y_size*)

Here is the caller graph for this function:

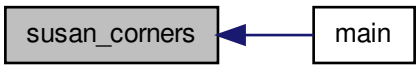


4.1.3.10 void setup_brightness_lut (uchar ** *bp*, int *thresh*, int *form*)

Here is the caller graph for this function:

4.1.3.11 susan_corners (uchar * in, int * r, uchar * bp, int max_no, CORNER_LIST corner_list, int x_size, int y_size)

Here is the caller graph for this function:

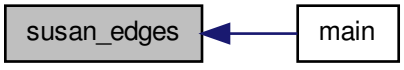


4.1.3.12 susan_corners_quick (uchar * in, int * r, uchar * bp, int max_no, CORNER_LIST corner_list, int x_size, int y_size)

Here is the caller graph for this function:

4.1.3.13 susan_edges (uchar * in, int * r, uchar * mid, uchar * bp, int max_no, int x_size, int y_size)

Here is the caller graph for this function:

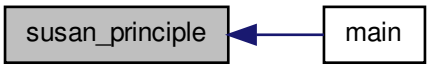


4.1.3.14 susan_edges_small (uchar * in, int * r, uchar * mid, uchar * bp, int max_no, int x_size, int y_size)

Here is the caller graph for this function:

4.1.3.15 susan_principle (uchar * in, int * r, uchar * bp, int max_no, int x_size, int y_size)

Here is the caller graph for this function:

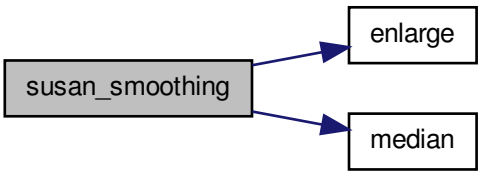


4.1.3.16 susan_principle_small (uchar * in, int * r, uchar * bp, int max_no, int x_size, int y_size)

Here is the caller graph for this function:

4.1.3.17 void susan_smoothing (int *three_by_three*, uchar * *in*, float *dt*, int *x_size*, int *y_size*, uchar * *bp*)

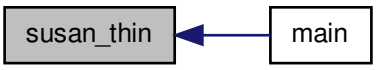
Here is the call graph for this function:



Here is the caller graph for this function:

4.1.3.18 susan_thin (int * *r*, uchar * *mid*, int *x_size*, int *y_size*)

Here is the caller graph for this function:



4.1.3.19 usage ( )

Here is the caller graph for this function:

Index