My Project

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Chapter 1

File Index

1.1 File List

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2 File Index

Chapter 2

File Documentation

2.1 build/CMakeFiles/3.17.2/CompilerIdC/CMakeCCompilerId.c File Reference

Macros

- #define COMPILER_ID ""
- #define STRINGIFY_HELPER(X) #X
- #define STRINGIFY(X) STRINGIFY_HELPER(X)
- #define PLATFORM ID
- #define ARCHITECTURE_ID
- #define DEC(n)
- #define HEX(n)
- #define C_DIALECT

Functions

• int main (int argc, char *argv[])

Variables

```
• char const * info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"
```

- char const * info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"
- char const * info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "]"
- const char * info_language_dialect_default

2.1.1 Macro Definition Documentation

2.1.1.1 ARCHITECTURE_ID

#define ARCHITECTURE_ID

2.1.1.2 C_DIALECT

```
#define C_DIALECT
```

2.1.1.3 COMPILER_ID

```
#define COMPILER_ID ""
```

2.1.1.4 DEC

```
#define DEC( \ensuremath{n} )
```

Value:

```
('0' + (((n) / 10000000) %10)), \
('0' + (((n) / 1000000) %10)), \
('0' + (((n) / 100000) %10)), \
('0' + (((n) / 10000) %10)), \
('0' + (((n) / 1000) %10)), \
('0' + (((n) / 100) %10)), \
('0' + (((n) / 100) %10)), \
('0' + (((n) / 10) %10)), \
('0' + (((n) / 10) %10)), \
('0' + (((n) % 10))
```

2.1.1.5 HEX

```
#define HEX(
```

Value:

```
('0' + ((n)>>28 & 0xF)), \
('0' + ((n)>>24 & 0xF)), \
('0' + ((n)>>20 & 0xF)), \
('0' + ((n)>>16 & 0xF)), \
('0' + ((n)>>12 & 0xF)), \
('0' + ((n)>>8 & 0xF)), \
('0' + ((n)>>4 & 0xF)), \
('0' + ((n)>>4 & 0xF)), \
('0' + ((n) & 0xF))
```

2.1.1.6 PLATFORM_ID

#define PLATFORM_ID

2.1.1.7 STRINGIFY

2.1.1.8 STRINGIFY_HELPER

```
#define STRINGIFY_HELPER( \it X ) #X
```

2.1.2 Function Documentation

2.1.2.1 main()

```
int main (
                    int argc,
                    char * argv[] )
647 {
int require = 0;
649   int require += info_compiler[argc];
650   require += info_platform[argc];
651   require += info_arch[argc];
652   #ifdef COMPILER_VERSION_MAJOR
653 require += info_version[argc];
654 #endif
655 #ifdef COMPILER_VERSION_INTERNAL
656 require += info_version_internal[argc];
657 #endif
658 #ifdef SIMULATE_ID
       require += info_simulate[argc];
660 #endif
661 #ifdef SIMULATE_VERSION_MAJOR
662 require += info_simulate_version[argc];
663 #endif
664 #if defined(__CRAYXE) || defined(__CRAYXC)
665 require += info_cray[argc];
666 #endif
667 require += info_language_dialect_default[argc];
668 (void)argv;
669 return require;
670 }
```

2.1.3 Variable Documentation

2.1.3.1 info_arch

```
char const* info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "]"
```

2.1.3.2 info_compiler

```
char const* info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"
```

2.1.3.3 info_language_dialect_default

```
const char* info_language_dialect_default
```

Initial value:

```
"INFO" ":" "dialect_default[" C_DIALECT "]"
```

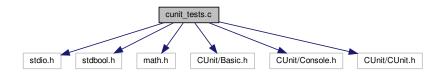
2.1.3.4 info_platform

```
char const* info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"
```

2.2 cunit_tests.c File Reference

```
#include <stdio.h>
#include <stdbool.h>
#include <math.h>
#include <CUnit/Basic.h>
#include <CUnit/Console.h>
#include <CUnit/CUnit.h>
```

Include dependency graph for cunit_tests.c:



Macros

• #define MAX 5

Functions

- int getTop (int i, int j, int arr[MAX][MAX])
- int getBottom (int i, int j, int arr[MAX][MAX])
- int getLeft (int i, int j, int arr[MAX][MAX])
- int getRight (int i, int j, int arr[MAX][MAX])
- int getLeftTop (int i, int j, int arr[MAX][MAX])
- int getRightTop (int i, int j, int arr[MAX][MAX])
- int getLeftBottom (int i, int j, int arr[MAX][MAX])
- int getRightBottom (int i, int j, int arr[MAX][MAX])
- void test_point_location (void)
- int main ()

Variables

- static const double epsilon =0.000000001
- int array [MAX][MAX]

2.2.1 Macro Definition Documentation

2.2.1.1 MAX

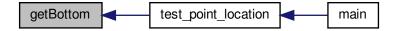
```
#define MAX 5
```

2.2.2 Function Documentation

2.2.2.1 getBottom()

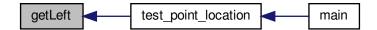
```
int getBottom (
             int i,
              int j,
              int arr[MAX][MAX] )
41
42
       int y;
       if(i == MAX - 1)
45
          y = arr[0][j];
46
47
      else
49
50
          y = arr[i+1][j];
51
52
53
      return y;
54
```

Here is the caller graph for this function:



2.2.2.2 getLeft()

```
int getLeft (
               int i,
               int j,
               int arr[MAX][MAX] )
56
57
58
       int y;
if(j == 0)
60
61
62
63
           y = arr[i][MAX - 1];
       else
           y = arr[i][j-1];
66
67
68
       return y;
69
70 }
```



2.2.2.3 getLeftBottom()

```
int getLeftBottom (
              int i,
               int j,
               int arr[MAX][MAX] )
132
133
        int y;
if(i == MAX - 1 && j != 0)
134
135
136
137
            y = arr[0][j-1];
138
139
        else if (i != MAX - 1 \&\& j == 0)
140
141
142
            y = arr[i+1][MAX-1];
        else if(i == MAX - 1 \&\& j == 0)
143
144
145
           y = arr[0][MAX-1];
146
147
        else
148
149
            y = arr[i+1][j-1];
150
151
        return y;
153 }
```

2.2.2.4 getLeftTop()

```
int getLeftTop (
              int i,
              int j,
              int arr[MAX][MAX] )
87
88
       int y;
if(i == 0 && j != 0)
89
90
91
           y = arr[MAX-1][j-1];
92
       else if(i != 0 && j == 0)
95
96
          y = arr[i-1][MAX-1];
97
98
       else if(i == 0 && j == 0)
100
           y = arr[MAX-1][MAX-1];
101
        else
102
103
           y = arr[i-1][j-1];
104
105
106
107
        return y;
108
109 }
```

2.2.2.5 getRight()

```
int getRight (
              int i,
               int j,
               int arr[MAX][MAX] )
71
72
73
74
                                                 {
       int y;
if(j == MAX - 1)
75
76
77
78
       y = arr[i][0];
       else
         y = arr[i][j+1];
81
82
83
      return y;
84
85 }
```

2.2.2.6 getRightBottom()

```
int getRightBottom (
              int i,
              int j,
               int arr[MAX][MAX] )
155
156
        int y;
if(i == MAX - 1 && j != MAX - 1)
{
157
158
159
160
           y = arr[0][j+1];
161
        else if(i != MAX - 1 && j == MAX - 1)
162
163
           y = arr[i+1][0];
164
165
166
        else if (i == MAX - 1 \&\& j == MAX - 1)
167
168
            y = arr[0][0];
169
170
        else
171
172
           y = arr[i+1][j+1];
173
174
175
        return y;
176
177 }
```

2.2.2.7 getRightTop()

```
int getRightTop (
              int i,
              int j,
              int arr[MAX][MAX] )
110
111
                                                   {
112
        int y;
        if(i == 0 && j != MAX - 1)
113
114
115
116
            y = arr[MAX-1][j+1];
        else if(i != 0 && j == MAX - 1)
117
118
119
           y = arr[i-1][0];
120
        else if(i == 0 && j == MAX - 1)
121
122
           y = arr[MAX-1][0];
123
124
125
       else
126
127
           y = arr[i-1][j+1];
128
129
130
       return y;
131 }
```

2.2.2.8 getTop()

```
int getTop (
              int i,
              int j,
               int arr[MAX][MAX])
26
27
       int y;
if(i == 0)
28
29
30
          y = arr[MAX-1][j];
31
33
       else
34
35
          y = arr[i-1][j];
36
37
38
       return y;
40 }
```

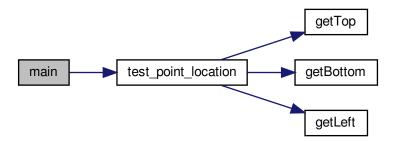


2.2.2.9 main()

```
main ( )
```

fill new array with values of array to use it in future

Here is the call graph for this function:



2.2.2.10 test_point_location()

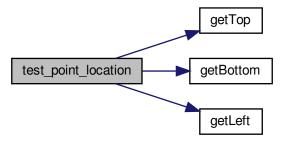
For checking if circular table is working well or no chech some of critical points

Warning

it mustn't give error bc the left of the most left value is most right one left of the most left must return to right

```
184
185
186
        CU_ASSERT_DOUBLE_EQUAL(getTop(2,1,array),0,epsilon);
187
188
        CU_ASSERT_DOUBLE_EQUAL(getTop(1,2,array),1,epsilon);
189
190
        CU_ASSERT_DOUBLE_EQUAL(getBottom(2,1,array),0,epsilon);
191
192
        CU_ASSERT_DOUBLE_EQUAL(getLeft(1,1,array),0,epsilon);
193
194
            CU_ASSERT_DOUBLE_EQUAL(getLeft(1,4,array),0,epsilon);
195
199
        CU_ASSERT_DOUBLE_EQUAL(getTop(0,2,array),0,epsilon);
200
201
        CU_ASSERT_DOUBLE_EQUAL(getLeft(3,0,array),0,epsilon);
206 CU_ASSERT_DOUBLE_EQUAL(getBottom(4,2,array),1,epsilon); 207
208
209
210 }
```

Here is the call graph for this function:



Here is the caller graph for this function:



2.2.3 Variable Documentation

2.2.3.1 array

int array[MAX][MAX]

Initial value:

```
 = \{ \\ \{0,0,1,0,0\},\\ \{0,0,1,0,0\},\\ \{0,1,1,1,0\},\\ \{0,0,1,0,0\},\\ \{0,0,0,0,0,0\}, \\ \}
```

2.2.3.2 epsilon

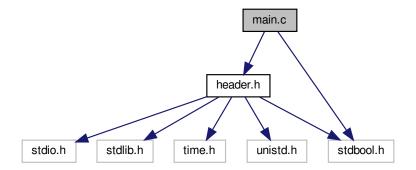
```
const double epsilon =0.000000001 [static]
```

2.3 main.c File Reference

main function Main file of Conway's Game Of Life project

```
#include <header.h>
#include <stdbool.h>
Include dependency graph for main.c:
```

include dependency graph for main.c.

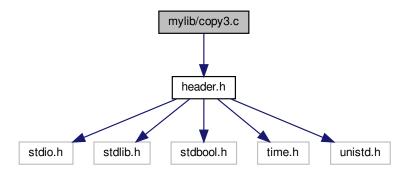


2.3.1 Detailed Description

main function Main file of Conway's Game Of Life project

2.4 mylib/copy3.c File Reference

```
#include "header.h"
Include dependency graph for copy3.c:
```



Functions

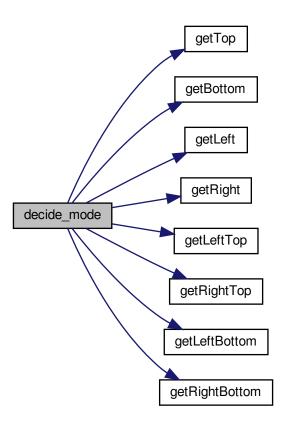
- int getTop (int i, int j, int arr[MAX][MAX])
- int getBottom (int i, int j, int arr[MAX][MAX])
- int getRight (int i, int j, int arr[MAX][MAX])
- int getLeft (int i, int j, int arr[MAX][MAX])
- int getLeftTop (int i, int j, int arr[MAX][MAX])
- int getRightTop (int i, int j, int arr[MAX][MAX])
- int getLeftBottom (int i, int j, int arr[MAX][MAX])
- int getRightBottom (int i, int j, int arr[MAX][MAX])
- bool decide_mode (int i, int j, int array[MAX][MAX])

2.4.1 Function Documentation

2.4.1.1 decide_mode()

```
172
         counter = counter + bottom;
173
174
         int left = getLeft( i, j, array);
175
         counter = counter + left;
176
         int right = getRight(i, j, array);
counter = counter + right;
177
178
179
180
181
         int ltop = getLeftTop(i, j, array);
counter = counter + ltop;
182
183
184
185
         int rtop = getRightTop(i, j, array);
         counter = counter + rtop;
186
187
         int lbottom = getLeftBottom(i, j, array);
188
189
         counter = counter + lbottom;
190
191
         int rbottom = getRightBottom(i, j, array);
192
         counter = counter + rbottom;
193
         // ----- //
194
195
196
197
         if(array[i][j] == 0)
198
199
              if(counter == 3)
200
                  //printf("%d %d --- ", i, j);
201
                  //printf("live \n");
array[i][j] = 1;
202
203
204
                  return true;
205
206
207
         else if(array[i][j] == 1)
208
209
              if(counter != 2 && counter != 3)
210
                  //printf("%d %d --- ", i, j);
//printf("dead \n");
array[i][j] = 0;
211
212
213
214
                  return true;
215
             }
216
         }
217
218
         return false;
219 }
```

Here is the call graph for this function:



2.4.1.2 getBottom()

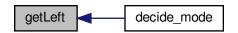
```
int getBottom (
             int i,
              int j,
              int arr[MAX][MAX])
19
20
21
                                                {//for reaching down of given coordinate
       int y;
      if(i == MAX - 1)
{
22
23
24
          y = arr[0][j];
25
26
      else
27
          y = arr[i+1][j];
28
29
30
31
       return y;
32
33 }
```

Here is the caller graph for this function:



2.4.1.3 getLeft()

```
int getLeft (
               int i,
               int j,
               int arr[MAX][MAX] )
51
                                                {//for reaching left of given coordinate
52
53
       int y;
if(j == 0)
54
55
56
57
58
           y = arr[i][MAX - 1];
       else
59
           y = arr[i][j-1];
61
62
63
       return y;
64
65 }
```



2.4.1.4 getLeftBottom()

```
int getLeftBottom (
              int i,
               int j,
               int arr[MAX][MAX] )
113
                                                     { \mbox{//for reaching left top of given coordinate}}
114
        int y;
if(i == MAX - 1 && j != 0)
115
116
118
            y = arr[0][j-1];
119
120
        else if(i != MAX - 1 && j == 0)
121
122
            y = arr[i+1][MAX-1];
123
        else if(i == MAX - 1 && j == 0)
124
125
            y = arr[0][MAX-1];
126
127
128
       else
129
130
            y = arr[i+1][j-1];
131
132
133
        return y;
134 }
```

Here is the caller graph for this function:



2.4.1.5 getLeftTop()

```
int getLeftTop (
              int i,
               int j,
               int arr[MAX][MAX] )
68
                                                 {//for reaching left top of given coordinate
69
70
      int y;
if(i == 0 && j != 0)
71
72
          y = arr[MAX-1][j-1];
74
75
       else if(i != 0 && j == 0)
76
77
           y = arr[i-1][MAX-1];
78
79
       else if(i == 0 && j == 0)
```

Here is the caller graph for this function:



2.4.1.6 getRight()

```
int getRight (
             int i,
              int j,
              int arr[MAX][MAX] )
                                             {//for reaching right of given coordinate
      int y;
38
      if(j == MAX - 1)
39
40
41
          y = arr[i][0];
44
          y = arr[i][j+1];
45
46
47
48
      return y;
50 }
```



2.4.1.7 getRightBottom()

```
int getRightBottom (
              int i,
               int j,
               int arr[MAX][MAX] )
136
137
                                                       {//for reaching right bottom of given coordinate
138
        int y;
if(i == MAX - 1 && j != MAX - 1)
139
141
            y = arr[0][j+1];
142
        else if(i != MAX - 1 && j == MAX - 1)
143
144
145
            y = arr[i+1][0];
146
        else if (i == MAX - 1 \&\& j == MAX - 1)
147
148
            y = arr[0][0];
149
150
151
        else
152
153
            y = arr[i+1][j+1];
154
155
156
        return y;
157
158 }
```

Here is the caller graph for this function:



2.4.1.8 getRightTop()

```
int getRightTop (
               int i,
               int j,
               int arr[MAX][MAX] )
91
92
                                                    \{//\text{for reaching right top of given coordinate}
       int y;
if(i == 0 && j != MAX - 1)
93
94
           y = arr[MAX-1][j+1];
       else if(i != 0 && j == MAX - 1)
98
99
            y = arr[i-1][0];
100
101
        else if(i == 0 && j == MAX - 1)
```

Here is the caller graph for this function:



2.4.1.9 getTop()

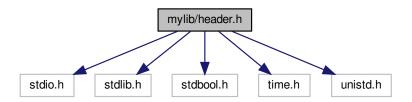
```
int getTop (
                int i,
                int j,
                int arr[MAX][MAX] )
                                                \{//\text{for reaching up of given coordinate}
4
5
6
7
      int y;
if(i == 0)
          y = arr[MAX-1][j];
10
11
12
       else
13
           y = arr[i-1][j];
14
15
16
17
       return y;
18 }
```



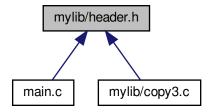
2.5 mylib/header.h File Reference

```
#include <stdio.h>
#include <stdlib.h>
#include <stdbool.h>
#include <time.h>
#include <unistd.h>
```

Include dependency graph for header.h:



This graph shows which files directly or indirectly include this file:



Macros

• #define MAX 5

Functions

- int getTop (int i, int j, int arr[MAX][MAX])
- int getBottom (int i, int j, int arr[MAX][MAX])
- int getRight (int i, int j, int arr[MAX][MAX])
- int getLeft (int i, int j, int arr[MAX][MAX])
- int getLeftTop (int i, int j, int arr[MAX][MAX])
- int getRightTop (int i, int j, int arr[MAX][MAX])
- int getLeftBottom (int i, int j, int arr[MAX][MAX])
- int getRightBottom (int i, int j, int arr[MAX][MAX])
- bool decide_mode (int i, int j, int array[MAX][MAX])

2.5.1 Macro Definition Documentation

2.5.1.1 MAX

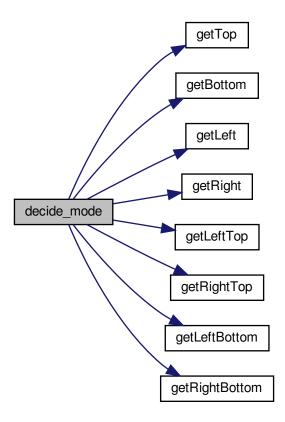
#define MAX 5

2.5.2 Function Documentation

2.5.2.1 decide_mode()

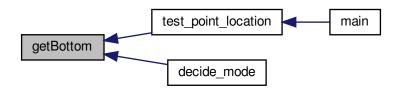
```
bool decide_mode (
                 int i,
                 int j,
                 int array[MAX][MAX] )
163 {
164
         int counter = 0;
165
166
167
         int top = getTop(i, j, array);
counter = counter + top;
168
169
170
171
         int bottom = getBottom(i, j, array);
172
         counter = counter + bottom;
173
         int left = getLeft( i, j, array);
counter = counter + left;
174
175
176
177
         int right = getRight(i, j, array);
counter = counter + right;
178
179
180
181
182
         int ltop = getLeftTop(i, j, array);
         counter = counter + ltop;
183
184
         int rtop = getRightTop(i, j, array);
counter = counter + rtop;
185
186
187
188
         int lbottom = getLeftBottom(i, j, array);
189
         counter = counter + lbottom;
190
         int rbottom = getRightBottom(i, j, array);
191
192
         counter = counter + rbottom;
193
          // ----- //
194
195
196
197
          if(array[i][j] == 0)
198
199
               if(counter == 3)
200
                   //printf("%d %d --- ", i, j);
//printf("live \n");
array[i][j] = 1;
return true;
201
202
203
204
205
206
         else if(array[i][j] == 1)
207
208
209
               if(counter != 2 && counter != 3)
210
211
                   //printf("%d %d --- ", i, j);
```

Here is the call graph for this function:



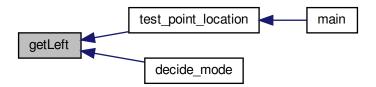
2.5.2.2 getBottom()

Here is the caller graph for this function:



2.5.2.3 getLeft()

```
int getLeft (
              int i,
              int j,
               int arr[MAX][MAX] )
56
       int y;
if(j == 0)
58
59
60
           y = arr[i][MAX - 1];
61
62
       else
64
65
           y = arr[i][j-1];
66
67
68
       return y;
69
70 }
```



2.5.2.4 getLeftBottom()

```
int getLeftBottom (
             int i,
              int j,
               int arr[MAX][MAX])
132
133
134
        int y;
if(i == MAX - 1 && j != 0)
135
136
137
            y = arr[0][j-1];
138
        else if(i != MAX - 1 && j == 0)
139
140
141
            y = arr[i+1][MAX-1];
142
143
        else if(i == MAX - 1 && j == 0)
144
145
            y = arr[0][MAX-1];
146
147
        else
149
            y = arr[i+1][j-1];
150
151
152
153 }
        return y;
```

Here is the caller graph for this function:



2.5.2.5 getLeftTop()

```
y = arr[i-1][MAX-1];
       else if(i == 0 && j == 0)
98
99
100
            y = arr[MAX-1][MAX-1];
101
102
        else
103
104
            y = arr[i-1][j-1];
105
106
107
        return y;
108
109 }
```

Here is the caller graph for this function:



2.5.2.6 getRight()

```
int getRight (
               int i,
                int j,
                int arr[MAX][MAX])
71
72
73
74
                                                   {
       int y;
if(j == MAX - 1)
75
76
77
78
            y = arr[i][0];
       else
79
           y = arr[i][j+1];
80
       return y;
83
84
85 }
```



2.5.2.7 getRightBottom()

```
int getRightBottom (
              int i,
               int j,
               int arr[MAX][MAX] )
155
156
157
        int y;
if(i == MAX - 1 && j != MAX - 1)
158
160
            y = arr[0][j+1];
161
        else if(i != MAX - 1 && j == MAX - 1)
162
163
164
            y = arr[i+1][0];
165
        else if (i == MAX - 1 \&\& j == MAX - 1)
166
167
            y = arr[0][0];
168
169
170
        else
171
172
            y = arr[i+1][j+1];
173
174
175
        return y;
176
177 }
```

Here is the caller graph for this function:



2.5.2.8 getRightTop()

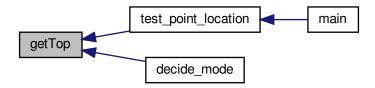
```
int getRightTop (
              int i,
               int j,
               int arr[MAX][MAX])
110
111
        int y;
if(i == 0 && j != MAX - 1)
112
113
114
115
            y = arr[MAX-1][j+1];
        else if(i != 0 && j == MAX - 1)
117
118
119
            y = arr[i-1][0];
120
        else if(i == 0 && j == MAX - 1)
```

Here is the caller graph for this function:



2.5.2.9 getTop()

```
int getTop (
                int i,
                int j,
                int arr[MAX][MAX])
26
27
28
29
       int y;
if(i == 0)
30
31
            y = arr[MAX-1][j];
33
34
        else
35
            y = arr[i-1][j];
36
37
38
        return y;
39
40 }
```



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