

UAS ROBOTIKA DAN SISTEM CERDAS
HACKING MICROMOUSE

Disusun oleh :

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Kelas : TK-43-03

1. Micromouse World

C:\Users\User\Downloads\Hacking\Micromouse\worlds\ratslife_tmp.wbt (Micromouse) - Webots R2023a

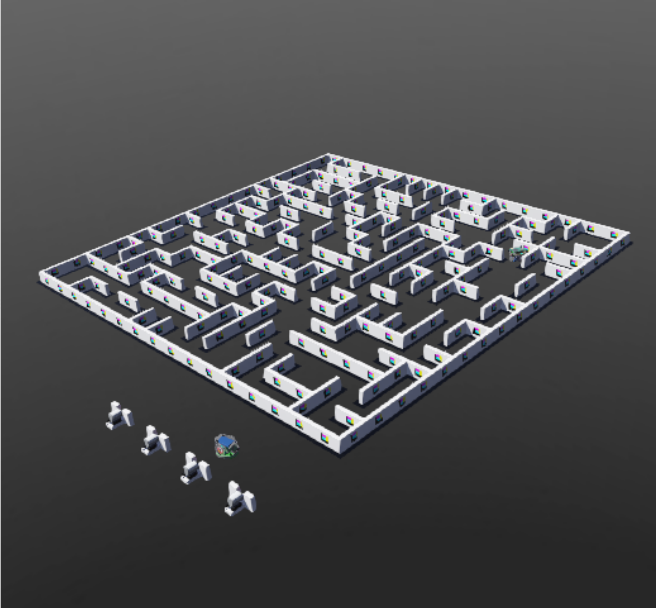
File Edit View Simulation Build Overlays Tools Help

Simulation View

0:04:20:992 - 0.89x

IMPORTABLE EXTERNPROTO

- > WorldInfo
- > DEF VIEWPOINT Viewpoint
- > TexturedBackground
- > TexturedBackgroundLight
- > DEF W000 LegoWall
- > DEF W001 LegoWall
- > DEF W002 LegoWall
- > DEF W003 LegoWall
- > DEF W004 LegoWall
- > DEF W005 LegoWall
- > DEF W006 LegoWall
- > DEF W007 LegoWall
- > DEF W008 LegoWall
- > DEF W009 LegoWall
- > DEF W010 LegoWall
- > DEF W011 LegoWall
- > DEF W012 LegoWall
- > DEF W013 LegoWall
- > DEF W014 LegoWall
- > DEF W015 LegoWall
- > DEF W016 LegoWall
- > DEF W017 LegoWall



maze_generator.c*

```
1
2
3#include "maze_generator.h"
4
5#include "helper.h"
6#include "linked_list.h"
7
8#include <webots/display.h>
9
10#include <assert.h>
11#include <stdio.h>
12#include <stdlib.h>
13#include <time.h>
14
15#include <stdio.h> //added
16
17
18// create a link between two cells
19// don't check if a link already exists
20static void create_link_between_two_cells(Maze *m, Cell *a, Cell *b) {
21    // create the link
22    Link *l = malloc(sizeof(Link));
23    l->wall = true;
24    l->cell_A = a;
25    l->cell_B = b;
```

Console - All

```
at Rat0.main(Rat0.java:788)
Counter: 66
WALL: RIGHT
WARNING: 'Rat0' controller exited with status: 1.
INFO: DEF R0 E-puck (PROTO): Battery is empty.
INFO: DEF R1 E-puck (PROTO): Battery is empty.
```

2. Flood Fill Algorithm

```
0---0---0---0---0---0---0---0---0---0---0---0---0---0---0
|014 013 012 011 010 009 008 007 007 008 009 010 011 012 013 014|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|013 012 011 010 009 008 007 006 006 007 008 009 010 011 012 013|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|012 011 010 009 008 007 006 005 005 006 007 008 009 010 011 012|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|011 010 009 008 007 006 005 004 004 005 006 007 008 009 010 011|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|010 009 008 007 006 005 004 003 003 004 005 006 007 008 009 010|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|009 008 007 006 005 004 003 002 002 003 004 005 006 007 008 009|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|008 007 006 005 004 003 002 001 001 002 003 004 005 006 007 008|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|007 006 005 004 003 002 001 000 000 001 002 003 004 005 006 007|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|007 006 005 004 003 002 001 000 000 001 002 003 004 005 006 007|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|008 007 006 005 004 003 002 001 001 002 003 004 005 006 007 008|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|009 008 007 006 005 004 003 002 002 003 004 005 006 007 008 009|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|010 009 008 007 006 005 004 003 003 004 005 006 007 008 009 010|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|011 010 009 008 007 006 005 004 004 005 006 007 008 009 010 011|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|012 011 010 009 008 007 006 005 005 006 007 008 009 010 011 012|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|013|012 011 010 009 008 007 006 006 007 008 009 010 011 012 013|
o  o  o  o  o  o  o  o  o  o  o  o  o  o  o  o
|014|013 012 011 010 009 008 007 007 008 009 010 011 012 013 014|
0---0---0---0---0---0---0---0---0---0---0---0---0---0---0
```

3. Result

