

# KBSW183001 Linux SDK

Slamtec Linux SDKSDKmakefile

SDK

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Linuxwindows 10Ubuntu16.04gcc5.3.1. SDKX86gcc5.4

SDK

```
gcc
terminal
gcc -v
gcc
```

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## SDK

GCC 4.6

- X86\_64
- armv7hf

GCC 4.8

- X86\_64
- armv7hf

GCC 5.4

- X86\_64
- 

## SDK

1. SDK, Downloads<web link>

```
dan@ubuntu:~$ wget <web link>
```

2.Downloads

```
dan@ubuntu:~$cd Downloads/
```

```
dan@ubuntu:~/Downloads$ tar -jxvf slamware_sdk_linux-x86_64-gcc5.4.tar.bz2
```

3.

- docs Slamware SDK
- linux-x86\_64-debug: lib
- linux-x86\_64-release
- samples:
- compiler\_version.txt, mak\_common.inc, mak\_def.inc

4. sample, makemakefile

```
dan@ubuntu:~/Downloads/slamware_sdk_linux-x86_64-gcc5.4$ cd samples/
```

dan@ubuntu:~/Downloads/slamware\_sdk\_linux-x86\_64-gcc5.4\$ make

5. make~/Downloads/slamware\_sdk\_linux-x86\_64-gcc5.4/linux-x86\_64-release/output/

6. IP(192.168.11.1)

dan@ubuntu:~/Downloads/slamware\_sdk\_linux-x86\_64-gcc5.4/linux-x86\_64-release/outputdan@ubuntu:~/Downloads/slamware\_sdk\_linux-x86\_64-gcc5.4/linux-x86\_64-release/output\$ ./moveandpathdemo 192.168.11.1

samplec++APIKBSW180105 SLAMWARE SDK API (Windows)SDKmakefile

1. moveandpathdemo(2,2),(-2,2),(-2,-2),(2,-2)

```
dan@ubuntu:~/Downloads/slamware_sdk_linux-x86_64-gcc5.4/linux-x86_64-release/output$ ./moveandpathdemo 192.168.11.1
SDK Version: 2.6.0 dev
SDP Version: 2.6.0 dev-sdp_vre-20180327
Connection Successfully
Empty
Action Name: EmptyAction
Non-Empty
Action ID: 30
Action Name: MoveAction
Remaining Milestones:
(2, 2)
(-2, 2)
(-2, -2)
(2, -2)
Non-Empty
Action ID: 30
Action Name: MoveAction
Non-Empty
Action ID: 30
Action Name: MoveAction
Remaining Milestones:
(2, 2)
(-2, 2)
(-2, -2)
(2, -2)
Non-Empty
Action ID: 30
Action Name: MoveAction
Non-Empty
Action ID: 30
Action Name: MoveAction
Remaining Milestones:
Empty
Action Name: EmptyAction
Non-Empty
Action ID: 31
Action Name: MoveAction
```

2. mapdemoknown area

```
distance: 100000, angle: -3.06547, valid: false
distance: 1.00019, angle: -3.07596, valid: true
distance: 1.02027, angle: -3.09064, valid: true
distance: 1.03527, angle: -3.10746, valid: true
distance: 1.06031, angle: -3.12428, valid: true
distance: 1.10214, angle: -3.13898, valid: true
Known Area:
(-4.6, -5.9, 8.45, 8.25)
distance: 3.60978, angle: 3.09097, valid: true
distance: 3.65902, angle: 3.0735, valid: true
distance: 3.96871, angle: 3.05838, valid: true
distance: 4.10022, angle: 3.04109, valid: true
distance: 2.25317, angle: 3.01819, valid: true
distance: 100000, angle: 3.0091, valid: false
distance: 4.10877, angle: 3.00691, valid: true
distance: 100000, angle: 2.99193, valid: false
distance: 2.65089, angle: 2.98575, valid: true
distance: 100000, angle: 2.97448, valid: false
distance: 4.20952, angle: 2.97205, valid: true
distance: 4.18594, angle: 2.95508, valid: true
distance: 4.16178, angle: 2.93779, valid: true
distance: 4.14566, angle: 2.92068, valid: true
distance: 4.09601, angle: 2.90329, valid: true
distance: 3.65851, angle: 2.88424, valid: true
distance: 4.07479, angle: 2.86897, valid: true
distance: 4.08546, angle: 2.85179, valid: true
distance: 4.07668, angle: 2.83431, valid: true
distance: 4.08289, angle: 2.81699, valid: true
distance: 4.09174, angle: 2.80004, valid: true
```

### 3. map2bmpoutputslamware\_mapdump.bmp

```
dan@ubuntu:~/Downloads/slamware_sdk/linux-x86_64-gcc5.4/linux-x86_64-release/output$ ./map2bmp 192.168.11.1
Connecting to the SDP @ 192.168.11.1...
Fetching Map Info...
> Map Area: (-4.6000,-5.9000,3.8500,2.3500)
> Cell Dimension: (169,165)
> Cell Resolution: (0.0500,0.0500)
> Timestamp: 2408891511
Fetching Localization Info...
> Position: (-0.2877,0.0009,0.0000)
> Heading: -149.1204
```