

How to Build and Run Examples

DTrack® SDK version 2.5.0

1 Instructions

1.1 How to build and run examples on Windows

Used in this example:

- ART Tracking System (ARTTRACK System, TRACKPACK System, SMARTTRACK)
- Windows 8.1 64-bit
- Visual Studio 2013 Express Edition
- DTrackSDK_v2.5.0

DTrack2 settings:

- One or more bodies are calibrated and tracked
- Output settings: Send to → this computer
Port 5000 (make sure that your system doesn't use or block this port)

How to build the example:

1. Create an empty project
2. Copy following files from the DTrackSDK_v2.5.0.zip to your project folder
 - a) complete "include" folder
 - b) complete "src" folder
 - c) examples/example_without_remote_control.cpp
3. Include the files to the project in Visual Studio
Project → Add Existing Item...
(Take care that the project is selected)
4. Project → Properties → Configuration Properties → Linker → Input
include at "Additional Dependencies": **ws2_32.lib** and press enter
5. Project → Properties → Configuration Properties → Linker → System
set "SubSystem" to: **Console (/SUBSYSTEM:CONSOLE)**
6. Project → Properties → Configuration Properties → VC++ Directories → Include Directories → <Edit...> → New Line (Ctrl-Insert) → Browse... → Point to the "DTrackSDK/include" path in DTrackSDK installation

Steps 4, 5 & 6 have to be done in debug and release mode

7. Build the example

The other examples can be build analog to this example

How to use:

1. Start the measurement of the ART Tracking System
2. Start the program in the windows console: `example_without_remote_control.exe 5000`
3. Tracking data are displayed in the windows console

1.2 How to build and run the examples on Linux

Used in this example:

- ART Tracking System (ARTTRACK System, TRACKPACK System, SMARTTRACK)
- Ubuntu 14.10 64-bit
- DTrackSDK_v2.5.0

DTrack2 settings:

- One or more bodies are calibrated and tracked
- Output settings: Send to → this computer
Port 5000 (make sure that your system doesn't use or block this port)

How to build the example:

1. Unzip DTrackSDK_v2.5.0.zip
2. Create a new file named "Makefile" in the same folder you have unzipped the SDK
3. Copy and paste the following code into the makefile (including the tabs and the new line like displayed below) and save it

```
all: \  
[TAB] examples/example_without_remote_control \  
       examples/example_with_dtrack2_remote_control \  
       examples/example_with_simple_remote_control \  
       examples/example_listen_to_multicast \  
       examples/example_fingertracking \  
       examples/DTrack2CLI
```

```
%: %.cpp  
    g++ -o $* -I include/ $< src/*.cpp
```

[TAB] means: Change all indentiations from white spaces to tabs

4. Run **\$ make** in the terminal
5. All examples are build

Resulting executables:

- examples/example_without_remote_control
- examples/example_with_dtrack2_remote_control
- examples/example_with_simple_remote_control
- examples/example_listen_to_multicast
- examples/example_fingertracking

- examples/DTrack2CLI

How to use:

1. Start the measurement of the ART Tracking System
2. Run the terminal and change to the examples directory
3. Start the program in the terminal: `./example_without_remote_control 5000`
4. Tracking data are displayed in the terminal