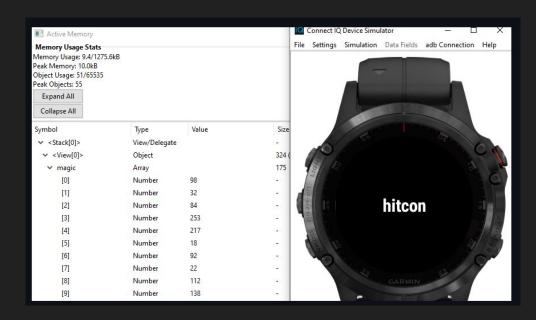
Unlimited Power

CTF Challenge by TheLuka

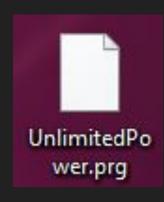
Ozadje

hitcon



1.del

hint: Hack my watts

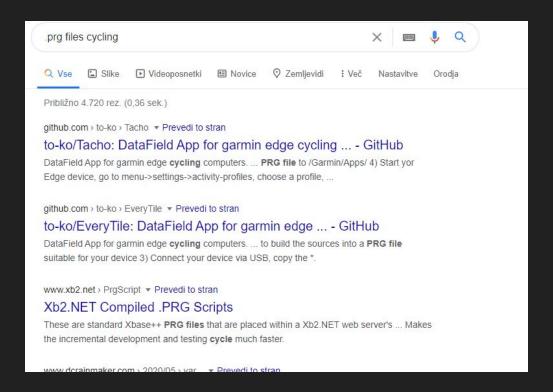


2.del

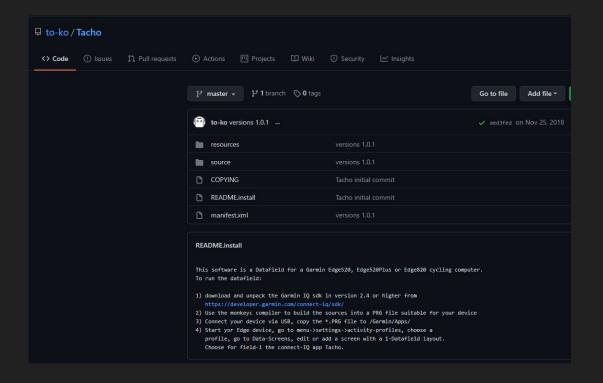
kaj je .prg?

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UnlimitedPower.prg - Notepad
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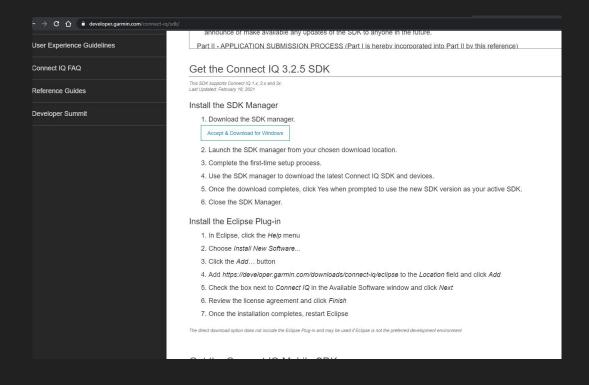
3.del Google



4.del Garmin SDK



5.del setup garmin SDK



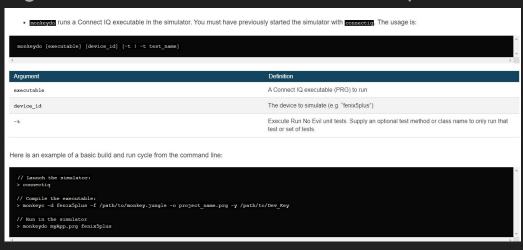
6.del running the simulator

connectiq

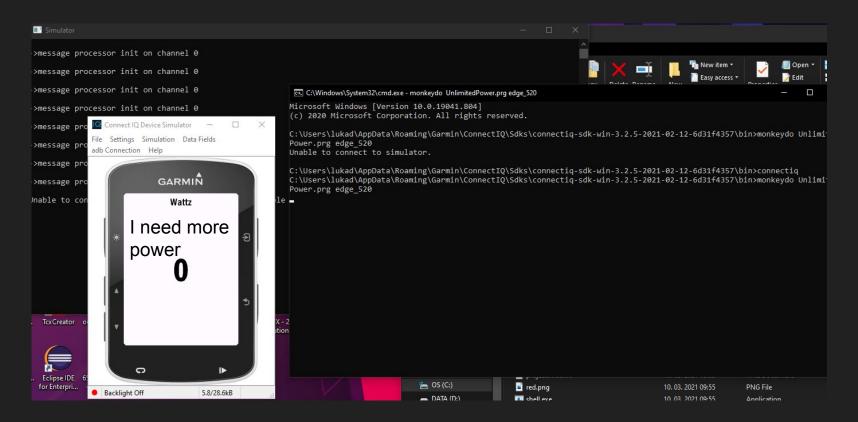
monkeydo UnlimitedPower.prg edge_520

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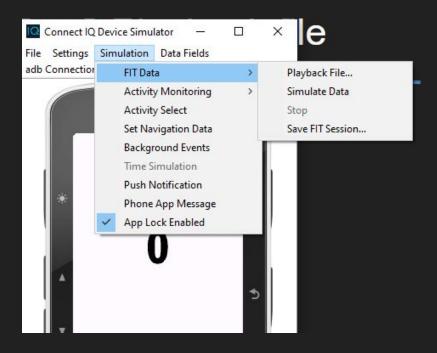
5-2021-02-12-6d31f4357\bin



7. Run the simulation



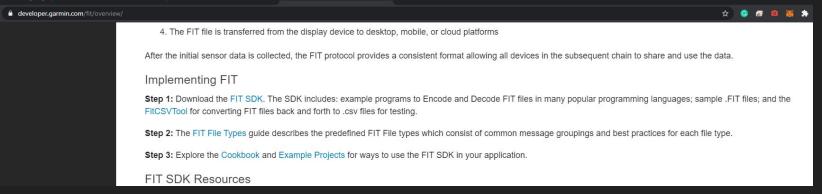
8.Playback file



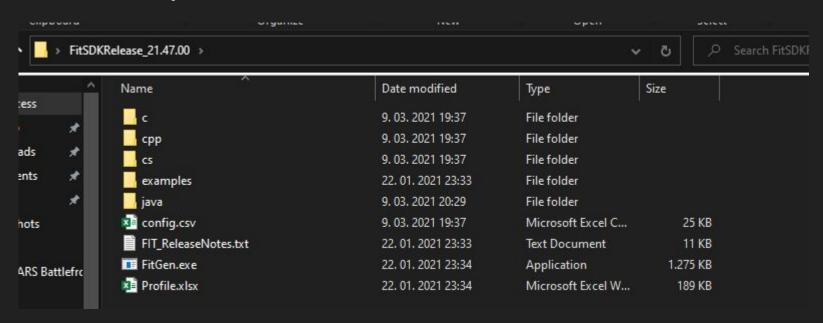
9. Pridobivanje fit file

Lahko uporabiš tudi svojega za testiranje

Cilj je dobiti nadzor nad Power Data



10. Examples



11.Got em

→ C ↑ developer.garmin.com/fit/cookbook/encoding-workout-files/ Cookbook Elapsed, Timer, and Moving Durations Decoding FIT Activity Files Encoding FIT Activity Files Working With Developer Data Fields Encoding FIT Course Files Encoding FIT Workout Files IsFit(), CheckIntegrity(), and Read() Methods Customizing the FIT SDK with FitGen **Example Projects** FIT Protocol

Developer Summit

The FTT workout file was designed to be able to store the most common workout instructions used for endurance training, strength trail These instructions can be used by devices to guide users through their workouts so that they do not need to commit them to memory.

Many fitness platforms include a workout creator that lets users design workouts. These files can then be played back by devices and ti through their workout. Since the platform creating the Workout file is not always aware of the platform that will playback the file, it is imp robust.

This recipe covers:

- · Overview of the FIT Workout file type.
- . Using the C# FIT SDK to create FIT Files.
- · Encoding FIT Workout Files
- Translating common workout instructions to Workout Step messages.

Example Project

The example project used in this recipe is a C# console app written with .NET Core 3.1. All example projects in the FIT Cookbook use and executed on Windows, Mac, and Linux systems. A guide for using the example projects in this cookbook can be found here. The so included with the FIT SDK and is located at /path/to/fit/sdk/cs/cookbook.

FIT Workout File Overview

Workout files are used to store a list of instructions that can be used to guide a user through a structured workout. Each instruction is st message, and the Workout Step messages are written to the file in the order that they should bet performed. Workout files can also con title, and additional workout notes that can be displayed to the user.

See the Workout File description for additional information on FIT Workout files.

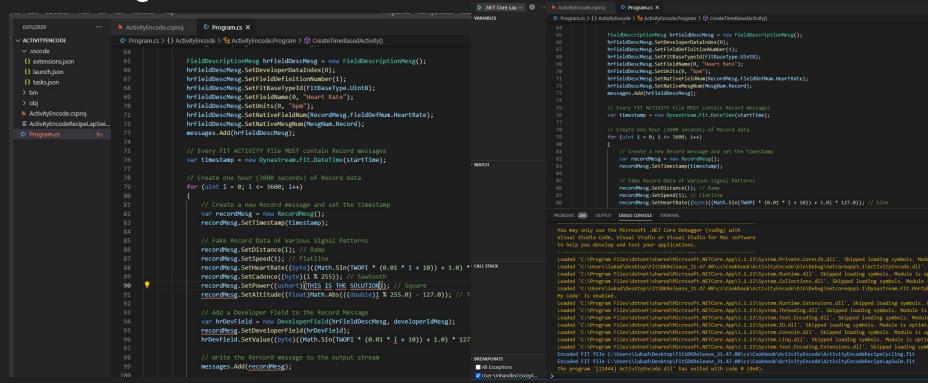
Creating FIT Files

The steps to create a FIT file are the same regardless of the type of FIT file being created. The difference between each file type is the

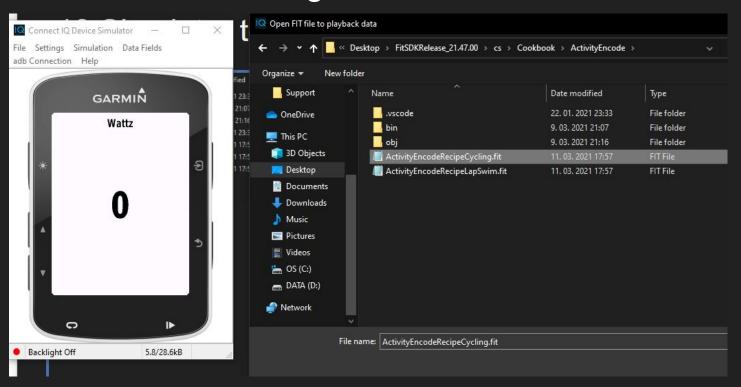
The following steps are used to create a FIT Workout file using the FIT SDK. Steps 1-4 and 7-8 are the same for every FIT file, wherea file type.

1. Create an output stream, this can be a file or memory stream. The stream must be created with both read and write access so the once all the messages have been written to the file.

12. Using the code



13. Simulator testing



14. Result

Altering Power Data with custom fit generation



Real world usage

