How to transfer a file over serial console

Contents

Stable: 31.01.2020 - 13:55 / Revision: 31.01.2020 - 13:50

Stable: 31.01.2020 - 15:30 | Revision: 31.01.2020 - 15:30

A quality version of this page, approved on *31 January 2020*, was based off this revision.

Contents

1 Purpose

The article provides information that is useful when starting with **ckermit**.

2 Introduction

C-Kermit is a combined network and serial communication software package offering a consistent, transport-independent, cross-platform approach to: connection establishment, terminal sessions, file transfer, file management, character-set translation, numeric and alphanumeric paging, automation of file transfer and management, dialogs, and communication tasks through its built-in scripting language.

In this article, we focus only on file-transfer between a host PC and an STMicroelectronics board via a serial console.

3 Installation on your target

Kermit is installed on the STMicroelectronics images via the **ckermit** package

4 Installation on your PC

The **ckermit** package MUST be installed on your PC to perform file tranfers via a serial console

On ubuntu

```
PC $> sudo apt-get install ckermit
```

5 Getting started

- generate a configuration file for kermit

Content of kermit_ttyACM0.cfg

```
set line /dev/ttyACM0
set speed 115200
set carrier-watch off
set flow-control none
set prefixing all
set parity none
set stop-bits 1
set modem none
```

Information

ttyACM0 corresponds to the serial port on Linux connected to the board. It can vary depending on the type of serial connection (ttyS0, ttyUSB0,...

- Download a file from a board to your PC:

Get the file **/etc/hosts** from the board:

```
PC $> kermit kermit_ttyACM0.cfg -g /etc/hosts
```

- Upload a file from your PC to a board:

Put the local file **myfile.txt** on the board at specific location: /home/root/

```
PC $> kermit kermit_ttyACM0.cfg -s myfile.txt
```

Information

To close the kermit session properly, don't forget to send the following command:

```
PC $> kermit kermit_ttyACM0.cfg -f
```

6 Tips

- Serial port already in use

If you encounter this kind of message (or if the command line is stuck, and displays random characters)

```
PC $> kermit kermit_ttyACM0.cfg -s /etc/hosts
Locked by process 24320
can't open device
```

Please kill/close the serial console application (generaly Minicom on Linux)