The Non-Casual Reference to

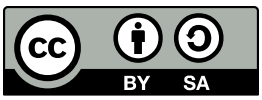
PoSRIC

\ˈpoż-'rik

an acronym for the

Portable **S**cripted **R**iPorFS **I**nterface in **C**

By Charles Thompson



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Introduction

RiPorFS was created with the idea of a truly limitless and portable file system. To make that idea and reality, **PoSRIC** has been created so you can access such filesystems on virtually any computer with a command line and a standard C library. It works by taking commands from stdin and interpreting them to interface with the given **RiPorFS**.

Building(Linux)

To build **PoSRIC** under linux you must have a GCC-like C compiler. Once you have the compiler working, run `./build` in the root **PoSRIC** directory to build the program, and the executable will be located in the local bin directory.

Building(DOS)

To build **PoSRIC** under DOS you must have Turbo C installed (Turbo C++ will probably work but I haven't tested it). Run the command `tc` in the root **PoSRIC** directory and press o+r+enter. Select “TCCONFIG.TC” and press F9 to start the build process. Once building is done, press alt+x to return to the DOS prompt, where you can run `posric` to get started.

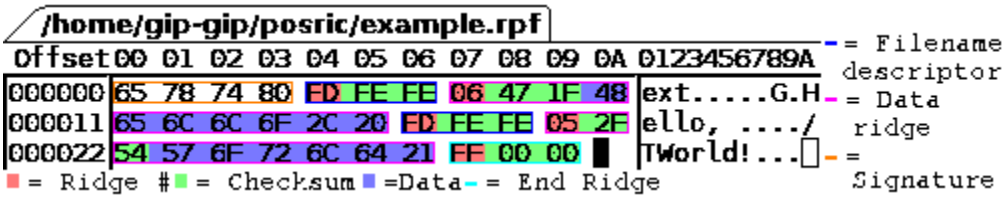
Commands

Command	Description
#:foo is blue;	Make a comment about foo being blue
exit:;	Exit posric with no errors
giveUp:foo;	Print “foo” and exit if the last command ended in error
echo:foo;	Print “foo” to the screen
use:foo.rpf;	Use the archive “foo.rpf”
tmp:tmp.rpf;	Use the file “tmp.rpf” as a temporary file
format:;	Format the archive being used
addFn:foo;	Adds the filename “foo” to the archive

RiPorFS vIIß Specs

The **Ri**dged **Por**table **F**ile **S**ystem is a storage protocol based off of(as you guessed) ridges. Ridges are 8-bit unsigned integers with a range between 1 & 256, and have a dual purpose; to describe data, and to provide data. Description ridges have the 8^{th} bit set, and describe the data ridges that follow. Data ridges encode blocks of data that are 1-128 bytes long. The data from the data ridges following a descriptor ridges are combined, and interpreted as descriptor ridges tell to.

RiPorFS Layout



RiPorFS Ridge #s

Hex Value	Name	Description
FF	NULL Data	Used when the following data can be ignored
FE	File Data Ridge	Used when filedata is being read
FD	File Name Ridge	Used when a filename is being read. Encoded UTF-8
FC	Directory Name Ridge	Used when sorting files into a directory (named with the data being read). Encoded UTF-8
FB	Directory End Ridge	Used to end a directory
FA	Time Of Creation	Used to tell the time of creation of the following file/directory names. Data is a variable-length little-endian integer representing the time of creation in UNIX time.
F9	Time Of Modification	Used to tell the time of the last modification of the following file/directory names. Data is a variable-length little-endian integer representing the time of the last modification in UNIX time.
F8	File Owner	The name of the owner of the following files/directories. Encoded in UTF-8
F7	Last Writer	The name of the last person who modified the following files/directories. Encoded in UTF-8
F6	Permissions	The UNIX permissions for the following files/directories
F5	File Type	The MIME type of the following files
80	XML Metadata	Misc. XML metadata