

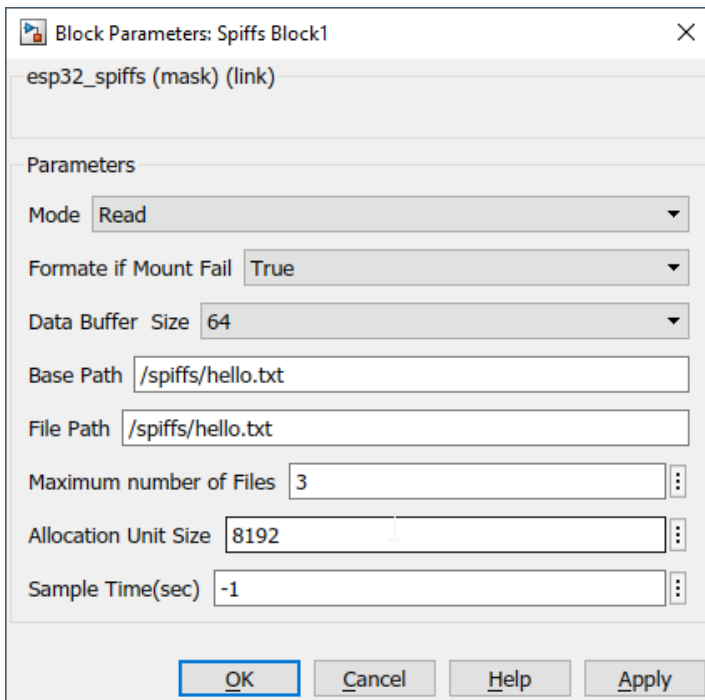
Spiffs Block

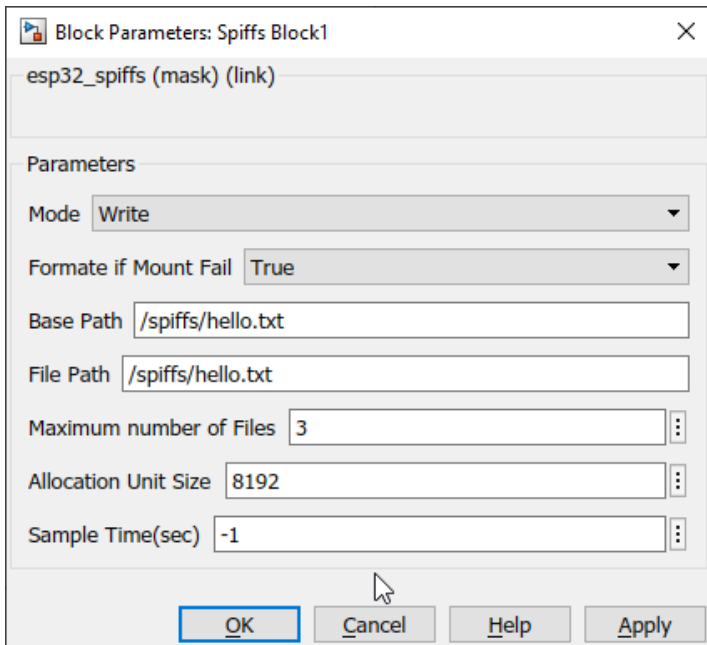
[View table of content.](#)[View table of content.](#)

How this block appears in a Simulink model?



What can be configured?





Configuration Parameter	Selectable Option/Value	Description
Mode	Read /Write /Append	Select pin for CS
Format if mount fail	True--False	If FAT partition cannot be mounted, and this parameter is true, create partition table and format the filesystem.
Base path	/spiffs	The block registers given FAT drive in VFS, at specified base path.
File path	/spiffs/filename.txt	
Maximum number of files	05	maximum number of files which can be open at the same time
Allocation unit size	Multiples of 1024	If 'format_if_mount_failed' is set, and mount fails, format the card with given allocation unit size. Must be a power of 2, between sector size and 128 * sector size. For SD cards, sector size is always 512 bytes.

When to use this block?

SPIFFS lets you access the flash memory like you would do in a normal filesystem in your computer, but simpler and more limited. You can read, write, close, and delete files. At the time of writing this post, SPIFFS doesn't support directories, so everything is saved on a flat structure.

How does this block work?

SPIFFS is a file system intended for SPI NOR flash devices on embedded targets. It supports wear levelling, file system consistency checks, and more.

- Currently, SPIFFS does not support directories, it produces a flat structure. If SPIFFS is mounted under /spiffs, then creating a file with the path /spiffs/tmp/myfile.txt will create a file called /tmp/myfile.txt in SPIFFS, instead of myfile.txt in the directory /spiffs/tmp.
- It is not a real-time stack. One write operation might take much longer than another.
- For now, it does not detect or handle bad blocks.

For more info : <https://docs.espressif.com/projects/esp-idf/en/latest/esp32/api-reference/storage/spiffs.html>

Demo

[Spiffs demo](#)

Previous : [Wireless Communication Block \(HIL\)](#)

Next : [SD Card Read Block](#)

Files

02.png	21.3 KB	03 Feb 2021	Vasitha Tilakumara (රාච්චි)
01.png	22.8 KB	03 Feb 2021	Vasitha Tilakumara (රාච්චි)
03.png	21.7 KB	03 Feb 2021	Vasitha Tilakumara (රාච්චි)