C LIBRARY FUNCTION - SETVBUF

http://www.tutorialspoint.com/c standard library/c function setvbuf.htm

Copyright © tutorialspoint.com

Description

The C library function **int setvbuf**FILE * stream, char * buffer, intmode, size defines how a stream should be buffered.

Declaration

Following is the declaration for setvbuf function.

```
int setvbuf(FILE *stream, char *buffer, int mode, size_t size)
```

Parameters

- **stream** This is the pointer to a FILE object that identifies an open stream.
- **buffer** This is the user allocated buffer. If set to NULL, the function automatically allocates a buffer of the specified size.
- mode This specifies a mode for file buffering –

size – This is the buffer size in bytes

Return Value

This function returns zero on success else, non-zero value is returned.

Example

The following example shows the usage of setvbuf function.

```
#include <stdio.h>
int main()
{
    char buff[1024];
    memset( buff, '\0', sizeof( buff ));
    fprintf(stdout, "Going to set full buffering on\n");
    setvbuf(stdout, buff, _IOFBF, 1024);
    fprintf(stdout, "This is tutorialspoint.com\n");
    fprintf(stdout, "This output will go into buff\n");
    fflush( stdout );
```

```
fprintf(stdout, "and this will appear when programm\n");
fprintf(stdout, "will come after sleeping 5 seconds\n");
sleep(5);
return(0);
}
```

Let us compile and run the above program to produce the following result. Here program keeps buffering the output into **buff** until it faces first call to fflush, after which it again starts buffering the output and finally sleeps for 5 seconds. It sends remaining output to the STDOUT before the program comes out.

```
Going to set full buffering on
This is tutorialspoint.com
This output will go into buff
and this will appear when programm
will come after sleening 5 seconds
Loading [MathJax]/jax/output/HTML-CSS/jax.js
```