

## Re: fwrite() misses writing a byte

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*Source:* [http://coding.derkeiler.com/Archive/C\\_CPP/comp.lang.c/2007-10/msg00642.html](http://coding.derkeiler.com/Archive/C_CPP/comp.lang.c/2007-10/msg00642.html)

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- *From:* Keith Thompson <kst-u@xxxxxxx>
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hemant.gaur@xxxxxxxxx writes:

I have an application which writes huge number of bytes into the binary files which is just some marshalled data.

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int len = Data.size(); //array size
for (int i = 0; i < len; ++i)
fwrite(&Data[i], 1, 1, f);
```

now after running this for long time and pushing millions of bytes, It once misses writing the last byte of fData. Then the further push of bytes is again correct. As i am not using the return value for the fwrite I think there is some error which could be due to buffer overrun in the stream. This is hard to reproduce and happening on the Solaris.

I presume that Data[i] is a single byte (type char, signed char, or unsigned char). If it isn't, then you're just writing the first byte of Data[i], which could be the high-order byte, or the low-order byte, or even something else.

If you really want to write a single byte at a time, you might as well use fputc() rather than fwrite(). Either way, you *must* check the value returned by the function to determine whether it succeeded or failed. On most systems, a failure will also result in the setting of errno; you can then use strerror() or perror() to construct a meaningful error message.

You should also decide whether you're using C or C++. Your use of both ``Data.size()'' and ``Data[i]'' suggests that you're using operator overloading, which C++ supports but C doesn't. In C++, you might prefer to use some other mechanism for output, though C++ supports the C stdio interface as well (ask in comp.lang.c++).

When asking for help, you should post a complete compilable program if possible. If that's not practical, you should at least show us the declaration of Data.

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"We must do something. This is something. Therefore, we must do this."

— Antony Jay and Jonathan Lynn, "Yes Minister"

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