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*A blog on various topics in C++ programming including language features, standards, idioms, design patterns, functional, and OO programming.*

# buffered/unbuffered C++ streams

July 10, 2005

Conventionally, `std::cin`, `std::cout` are buffered and `std::cerr` is not buffered. Unbuffered

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written to device immediately. In general, `ofstream`s are buffered. You can make a stream unbuffered by invoking `setbuf(0,0)`.

For example,

```
ofstream of;  
of.setbuf(0,0); //  
makes it  
unbuffered.
```

You can force a buffered stream to flush the contents using `std::endl`. Other interesting thing is to tie an buffered output stream with a buffered input

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means is,  
whenever you  
want to accept an  
input from the  
input stream, the  
output stream  
'tied' to it is  
flushed  
automatically.

For example,  
`ifstream in; // a`  
buffered input  
stream.  
`ofstream out; // a`  
buffered output  
stream.  
and `in` and `out` are  
tied together.

then,  
`out << "data 1" <<`  
`"data 2" << ..... <<`  
`"data N";`  
`// may or may not`

file.

...

in >> somevar; //  
out will be flushed  
before somevar is  
input.

You do this by  
invoking:

```
in.tie(&out);
```

tie causes two  
streams to be  
synchronized,  
such that,  
operations on one  
stream occur after  
operations on the  
other stream are  
complete. As a last  
note, by default,  
the standard  
objects cin, cerr

to cout.



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found your site  
suitable for  
another  
visit! And when  
I'm able to surf  
the web, I look  
for  
blogs as great  
as your work.  
Come as you  
are and look at  
my  
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said...

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blog. It blew  
me away and I



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to surf the net,  
i try  
finding blogs as  
good as your  
site.

Hey son, you  
need to check  
out my **long  
island plastic  
surgery** blog!

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opportunitya**  
said...

Fascinating  
blog. I loved  
the site you did  
a good  
job on it, I will  
be back! I surf  
the net for blog  
like this one.  
Please go over  
my **plastic  
surgery  
procedure**  
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**Mrs Sharon  
Sim** said...

Hello  
Everybody,  
My name is  
Mrs Sharon

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am a happy  
woman today?  
and i told my  
self that any  
lender that  
rescue my  
family from our  
poor situation,  
i will refer any  
person that is  
looking for loan  
to him, he gave  
me happiness  
to me and my  
family, i was in  
need of a loan  
of  
S\$250,000.00  
to start my life  
all over as i am  
a single mother  
with 3 kids I  
met this honest  
and GOD  
fearing man  
loan lender  
that help me  
with a loan of  
S\$250,000.00  
SG. Dollar, he is  
a GOD fearing  
man, if you are  
in need of loan  
and you will  
pay back the  
loan please  
contact him tell  
him that is Mrs  
Sharon, that  
refer you to  
him. contact Dr  
Purva Pius,via  
email:  
(urgentloan22@

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said...

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Information  
**California**  
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I am interested in C++, standards-based middleware for distributed systems, model-driven software development, and scalable fault-tolerant distributed systems.

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