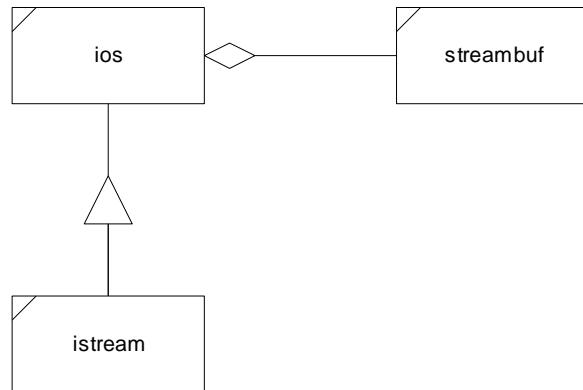


# **Reference for std::iostream Library**

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## istreams <iostream>



### istream

```

Istream(streambuf*)
~istream( )
istream& seekg(streampos);
istream& seekg(streamoff,
seek_dir)
streampos tellg()
istream& get(char*, int, char)
istream& read(char*, int)
istream& getline(char*, int,
char)
istream& get(streambuf&,
char)
istream& get(char&)
int get( )
int peek( )
int gcount( )
istream& putback(char)
istream& ignore(int, int)
istream& operator>>(xxx)
  
```

### ios

```

ios(streambuf*)
~ios( )
streambuf* rdbuf( )
long flags( )
long flags(long)
long setf(long, long)
long unsetf(long)
int width(int)
char fill(char)
int precision(int)
istream* tie(istream*)
int eof( )
int good( )
void clear( )
int operator!()
static void sync_with_stdio( )
  
```

### streambuf

```

streambuf( )
streambuf(char*, int)
~streambuf( )
streambuf* setbuf(char*, int)
int sgetc( )
void stossc( )
int sbumpc( )
int sputc(int)
int out_waiting( )
streampos
seekpos(streampos, int)
streampos seekoff(streamoff,
ios::seek_dir, int)
  
```

Formatting flags <iostream>

skipws	left	right	Internal	dec	oct
hex	showbase	showpoint	Uppercase	showpos	scientific
fixed	unitbuf	stdio			

io\_state <iostream>

goodbit	eofbit	Failbit	badbit
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open\_mode <iostream>

in	out	ate	App	trunc	nocreate
noreplace	binary				

seek\_dir <iostream>

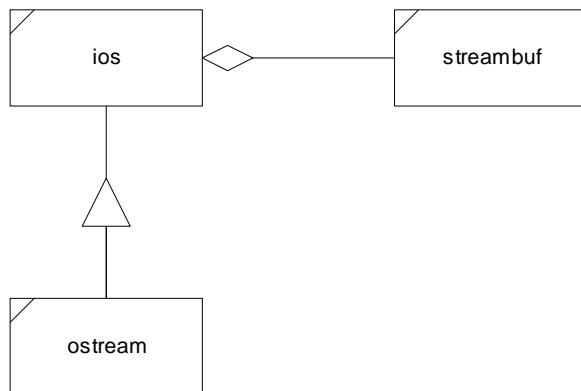
beg	cur	End
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Manipulators <iostream> or <iomanip>

dec	oct	hex	endl	ends	flush
ws	(re)setiosflags	setbase	Setfill	setprecision	setw
(no)boolalpha	(no)showbase	(no)showpoint	(no)showpos	(no)skipws	(no)uppercase
internal	left	right	fixed	scientific	

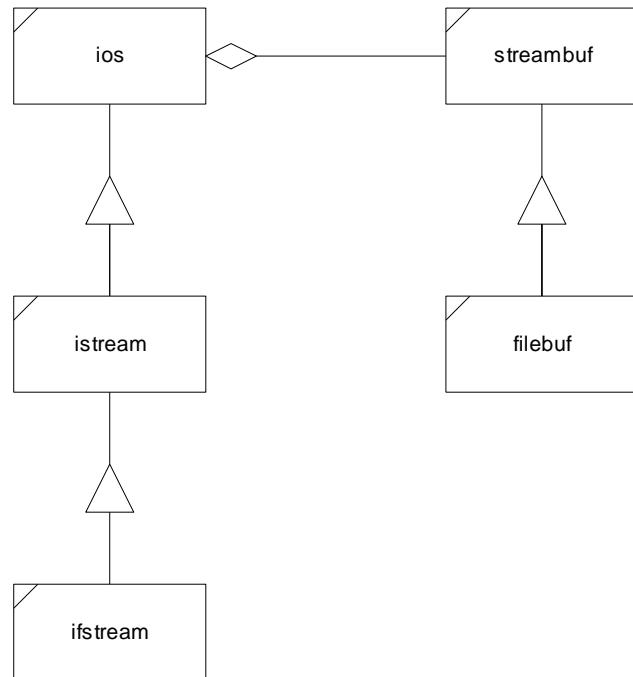


## ostreams <iostream>



<b>ostream</b>	<b>ios</b>	<b>streambuf</b>
<code>ostream(streambuf*)</code> ~ostream() ostream& seekp(streampos); ostream& seekp(streamoff, seek_dir) streampos tellp() ostream& put(char) ostream& write(char*, int) ostream& flush() ostream& operator<<(xxx)	<code>ios(streambuf*)</code> ~ios() streambuf* rdbuf() long flags() long flags(long) long setf(long, long) long unsetf(long) int width(int) char fill(char) int precision(int) ostream* tie(ostream*) int eof() int good() void clear() int operator!() static void sync_with_stdio()	<code>streambuf() streambuf(char*, int) ~streambuf() streambuf* setbuf(char*, int) int sgetc() void stossc() int sbumpc() int sputc(int) int out_waiting() streampos seekpos(streampos, int) streampos seekoff(streamoff, ios::seek_dir, int)</code>

## **ifstreams <fstream> and <iostream>**



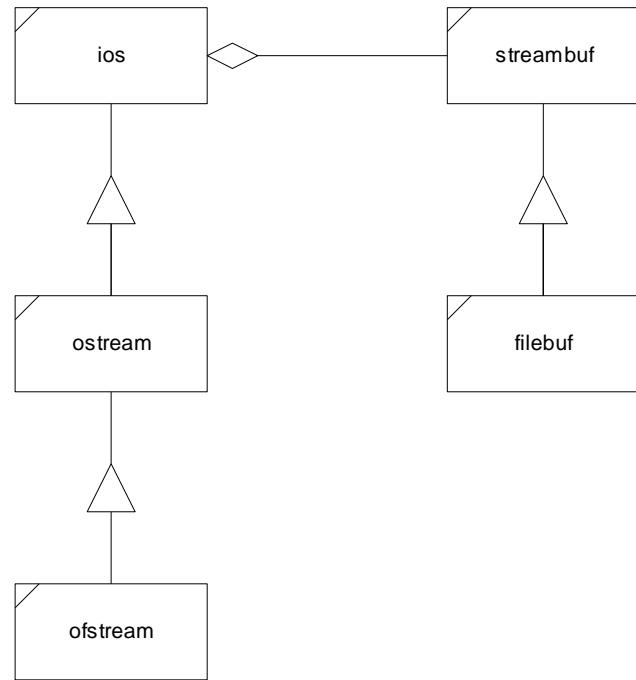
### **ifstream**

```
ifstream( )
ifstream(char*, int, int)
ifstream(int)
ifstream(int, char*, int)
~ifstream( )
filebuf* rdbuf( )
void open(char*, int, int)
void attach(int)
void close()
int fd()
int is_open()
```

### **filebuf**

```
filebuf( )
filebuf(int)
filebuf(int, char* int)
~filebuf( )
int is_open( )
int fd( )
filebuf* open(char*, int, int)
filebuf* close( )
filebuf* attach(int)
streambuf* setbuf(char*, int)
streampos seekoff(streamoff,
ios::seek_dir, int)
```

## ofstreams <fstream> and <iostream>



### **ofstream**

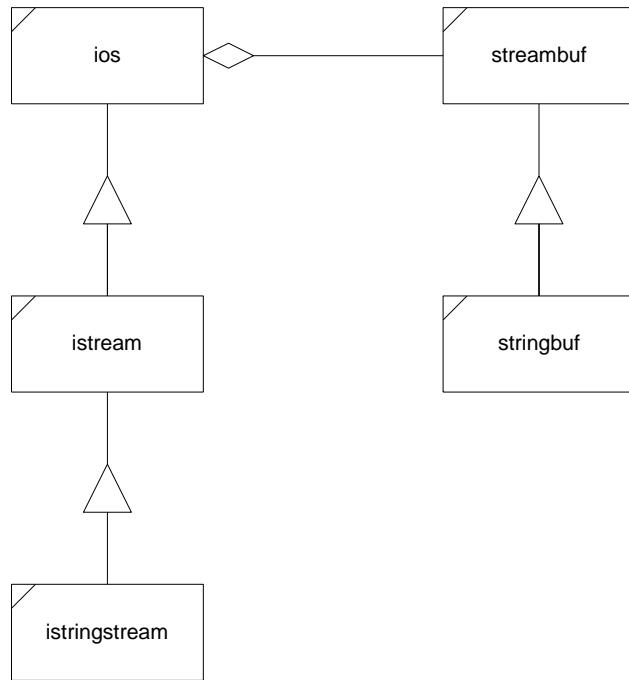
```
ofstream()
ofstream(char*, int, int)
ofstream(int)
ofstream(int, char*, int)
~ofstream()
filebuf* rdbuf()
void open(const char*, int, int)
void close()
streambuf* setbuf(char*, int)
int setmode(int)
void attach(int)

int fd()
int is_open()
```

### **filebuf**

```
filebuf()
filebuf(int)
filebuf(int, char* int)
~filebuf()
int is_open()
int fd()
filebuf* open(char*, int, int)
filebuf* close()
filebuf* attach(int)
streambuf* setbuf(char*, int)
streampos seekoff(streamoff,
ios::seek_dir, int)
```

## **iostreamstreams <sstream>**



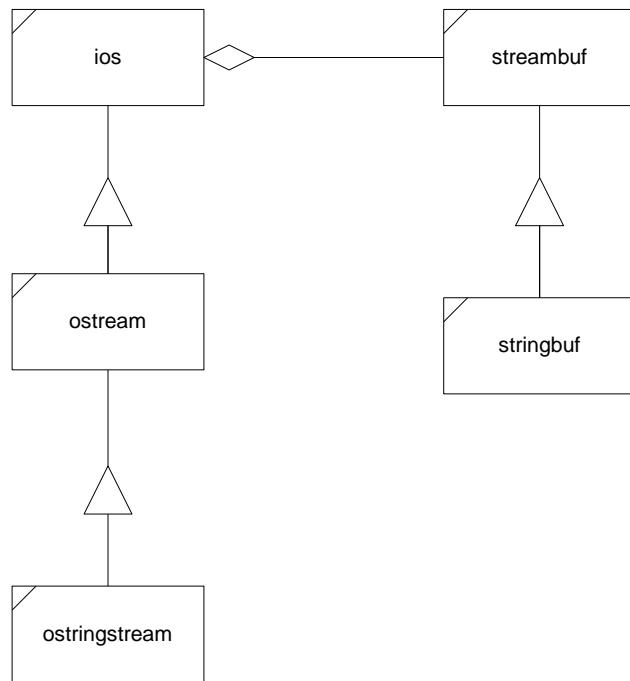
### **iostreamstream**

```
iostreamstream(ios::openmode  
mode = ios::in)  
iostreamstream(const string &s,  
ios::openmode mode = ios::in)  
  
~iostreamstream()  
stringbuf *rdbuf()  
string str()  
Void str(const string& s)
```

### **stringbuf**

```
stringbuf(ios::openmode  
mode=ios::in | ios::out)  
stringbuf(const string &s,  
ios::openmode mode =  
ios::in | ios::out)  
~stringbuf()  
string str()  
void str(const string &s)
```

## **ostringstreams <sstream>**



### **ostringstream**

```
ostringstream(ios::openmode  
mode=ios::out)  
ostringstream(const string &s,  
ios::openmode mode=ios::out)  
  
~ostringstream()  
stringbuf* rdbuf()  
string str()  
Void str(const string& s);
```

### **stringbuf**

```
stringbuf(ios::openmode  
mode=ios::in | ios::out)  
stringbuf(const string &s,  
ios::openmode mode =  
ios::in | ios::out)  
~stringbuf()  
void str(const string &s)  
string str()
```

