## <fstream> File Opening Modes Combinations in C++ 17

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Flags describing the requested input/output mode for a file can be combined with the bitwise OR operator (|).

ios_base flag combination					stdio equivalent
binary	in	out	trunc	app	
		+			" <b>w</b> "
		+		+	"a"
				+	"a" "w"
		+	+		" <b>w</b> "
	+				"r"
	+	+			"r+"
	+	+	+		"w+"
	+	+		+	"a+"
	+			+	"a+"
+		+			"wb"
+		+		+	"ab"
+				+	"ab"
+		+	+		"wb"
+	+				"rb"
+	+	+			"r+b"
+	+	+	+		"w+b"
+	+	+		+	"a+b"
+	+			+	"a+b"

Table 1: File opening modes

For in-depth descriptions and applied examples of each operator listed on this table, please consider consulting:

The C++ Programming Language (4th Edition), by Bjarne Stroustrup. Addison-Wesley, 2013. ISBN 978-0321563842.

ISO/IEC 14882:2017