

The following details a proposed LOC counting standard for C++. It is taken from Humphrey's "A Discipline of Software Engineering".

Count Type	Type	Comments
Physical/Logical	Logical	Means we are counting logical lines of code and not physical lines of code

Statement Type	Included	Comments
Executable	Yes	
Non-executable:		
Declarations	Yes	See notes 3 and 4
Compiler Directives	Yes	See note 4
Comments	No	
With source	No	
Banners	No	
Blank lines	No	

Clarifications	Included	Examples/Cases
Empty Statements	Yes	“;;”, lone ;’s, etc.
Begin..end	See Note 1	when executable
Begin..end	See Note 1	when not executable
Test conditions	Yes	when used as sub-program arguments
Expression evaluation	Yes	when used as sub-program arguments
End symbols	See Notes 1 and 2	when terminating executable statements
End symbols	See Notes 1 and 2	when terminating declarations or bodies
Then, else, otherwise	See Note 1	
Elseif	Yes	
Keywords	Yes	
Labels	Yes	branch destinations when on separate lines

**Notes:**

1. Count once every occurrence of the following keywords: CASE, DO, ELSE, ENUM, FOR, IF, PRIVATE, PUBLIC, STRICT, SWITCH, UNION, WHILE
2. Count once every occurrence of the following: ; {} or };
3. Count once each variable and parameter declaration
4. Count once each #define, #ifdef, #include, etc. statement