# CBo

## P. Baillehache

## August 2, 2020

# Contents

# Introduction

CBo is a C executable to check code formatting.

It is intended to work on various languages but is currently implemented only for C. The rules it inforces are personally defined and its use is currently purely personal.

It uses the `PBErr`, `GSet`, `ResPublish` and `PBCExtension` libraries.

# 1 Interface

```
cbo
[-help] : print the help message
[-listFile] : print only the list of file(s) with error(s)
```

CBo must be used after the commpilation phase. It works on the assumption that the code is correct, i.e. it compiles with no error.

# 2 Rules

## 2.1 C language

### 2.1.1 LineLength

Rule: *Lines must be less than or equal to 79 characters long.*

### 2.1.2 TrailingSpace

Rule: *There must be no spaces or tabs at the end of the lines.*

### 2.1.3 EmptyLineBeforeClosingCurlyBrace

Rule: *There must be an empty line before a line continaing a closing curly brace.*

### 2.1.4 EmptyLineAfterOpeningCurlyBrace

Rule: *There must be an empty line after a line containing an opening curly brace.*

### 2.1.5 EmptyLineAfterClosingCurlyBrace

Rule: *There must be an empty line after a line containing a closing curly brace.*

### 2.1.6 SpaceAroundComma

Rule: *There must be a space after a comma but not before.*

### 2.1.7 SpaceAroundSemicolon

Rule: *There must be no space before a semicolon.*

### 2.1.8 SpaceAroundOperator

Rule: *There must be a space around the operators + - / |.*

### 2.1.9 SeveralBlankLine

Rule: *There must be no several successive blank lines.*

### 2.1.10 NoCurlyBraceAtHead

Rule: *There must be no line starting with an opening curly brace if its closing curly brace is not on the same line.*

### 2.1.11 NoCurlyBraceAtTail

Rule: *A closing curly brace must be alone on its line except if its opening curly brace is on the same line.*

### 2.1.12 CharBeforeDot

Rule: *A dot must be surrounded by [a-zA-Z0-9] or be at the head of a line.*

### 2.1.13 SpaceBeforeOpeningCurlyBrace

Rule: *There must be a space or an opening curly brace before an opening curly brace.*

### 2.1.14 EmptyLineBeforeComment

Rule: *There must be an empty line before a comment line.*

### 2.1.15 IndentLevel

Rule: *Blocks must be indented with an indentation level of 2 spaces.*

### 2.1.16 SeveralArgOnOneLine

Rule: *There must be no several arguments on the same line when doing function call.*

### 2.1.17 ArgumentsUnaligned

Rule: *Arguments of functions must be aligned on the first character of their variable name.*

### 2.1.18 IndentTab

Rule: *Blocks must be indented with spaces.*

### 2.1.19 EmptyLineBeforeCase

Rule: *There must be an empty line before 'case' and 'default' in 'switch' blocks.*