PBCExtension

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January 26, 2019

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Introduction

PBCExtension is a C library providing mcros to extend the C language.

It uses no external library.

1 Interface

2 Code

2.1 pbcextension.c

```
// ----- PBCEXTENSION.C ------
// ----- Include -----
#include "pbcextension.h"
// ----- Define -----
```

3 Makefile

```
# Build mode
# 0: development (max safety, no optimisation)
# 1: release (min safety, optimisation)
# 2: fast and furious (no safety, optimisation)
BUILD_MODE?=0
all: pbmake_wget main
# Automatic installation of the repository PBMake in the parent folder
pbmake_wget:
if [ ! -d ../PBMake ]; then wget https://github.com/BayashiPascal/PBMake/archive/master.zip; unzip master.zip; rm -f
# Makefile definitions
MAKEFILE_INC=../PBMake/Makefile.inc
include $(MAKEFILE_INC)
# Rules to make the executable
{\tt repo=pbcextension}
$($(repo)_EXENAME): \
$($(repo)_EXENAME).o \
$($(repo)_EXE_DEP) \
$($(repo)_DEP)
$(COMPILER) 'echo "$($(repo)_EXE_DEP) $($(repo)_EXENAME).o" | tr ' ', '\n' | sort -u' $(LINK_ARG) $($(repo)_LINK_ARG)
$($(repo)_EXENAME).o: \
((po)_DIR)/((po)_EXENAME).c 
$($(repo)_INC_H_EXE) \
$($(repo)_EXE_DEP)
$(COMPILER) $(BUILD_ARG) $($(repo)_BUILD_ARG) 'echo "$($(repo)_INC_DIR)" | tr ', '\n' | sort -u' -c $($(repo)_DIR)/
```

4 Unit tests

```
#include <stdlib.h>
#include <stdio.h>
#include "pbcextension.h"
int _TestVANbArgs(int nbArg, ...) {
  return nbArg;
#define TestVANbArgs(...) \
  (_TestVANbArgs(__VA_NB_ARGS__(__VA_ARGS__), __VA_ARGS__))
void UnitTestVANbArgs() {
  if (TestVANbArgs(1) != 1) {
    printf("UnitTestVANbArgs OK\n");
    exit(1);
  if (TestVANbArgs(1, 2) != 2) {
    printf("UnitTestVANbArgs OK\n");
    exit(1);
  if (TestVANbArgs(1, 2, 3) != 3) {
    printf("UnitTestVANbArgs OK\n");
    exit(1);
printf("UnitTestVANbArgs OK\n");
}
void UnitTestAll() {
  UnitTestVANbArgs();
int main(void) {
  UnitTestAll();
  return 0;
```

5 Unit tests output

UnitTestVANbArgs OK