

Help

```

#if defined(PremiaCurrentVersion) && PremiaCurrentVersion <
    (2008+2) //The "#else" part of the code will be freely av
    ailable after the (year of creation of this file + 2)
#else
/*****
*   CPS - A simple C PDE solver                                     *
*                                                                 *
*   Copyright (c) 2007,                                           *
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*                                                                 *
*****/
#ifndef UTILS_H
#define UTILS_H

#include <stdlib.h>
#include <string.h>
#include "cps_types.h"
#include "cps_assertions.h"
#include "cps_debug.h"

/* utility macros */

#ifdef WITH_GC
#include <gc.h>
#define APP_INIT GC_INIT()
#define MEM_ALLOC GC_MALLOC
#define MEM_FREE  GC_FREE
#else
#define APP_INIT
#define MEM_ALLOC malloc
#define MEM_FREE free
#endif

#define STANDARD_CREATE(PTR,TYPE)          {

```

```
*PTR = (TYPE*)MEM_ALLOC(sizeof(TYPE));      {
CHECK("ptr_not_null", ((*PTR) != NULL));    {
memset((*PTR), 0, sizeof(TYPE));

#define STANDARD_DESTROY(PTR)                {
    if ((*PTR) != NULL)                      {
        MEM_FREE((*PTR));
#define endif

#endif //PremiaCurrentVersion
```

References