```
    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,                                    *
*     Maya Briani       <m.briani@iac.rm.cnr.it>,          *

*     Francesco Ferreri <francesco.ferreri@gmail.com>,     *
*     Roberto Natalini  <r.natalini@iac.rm.cnr.it>,        *
*     Marco Papi        <m.papi@iac.rm.cnr.it>             *
*                                                          *

************************************************************/
#ifndef BOUNDARY_DESCRIPTION_H
#define BOUNDARY_DESCRIPTION_H

#include "cps_types.h"
#include "cps_dimensions.h"

#define BOUNDARY_NONE    0xB0
#define BOUNDARY_LEFT    0xB1
#define BOUNDARY_RIGHT   0xB2
#define BOUNDARY_INITIAL 0xB3

struct boundary_description_t {

  function  *initial;
  function  *left[MAX_DIMENSIONS];
  function  *right[MAX_DIMENSIONS];
};

int boundary_description_create(boundary_description **);
int boundary_description_set_left(boundary_description *,
    unsigned int, function *);
int boundary_description_set_right(boundary_description *,
    unsigned int, function *);
int boundary_description_set_initial(boundary_description *
```

```
    , function *);
double boundary_description_evaluate(boundary_description *
    , const grid *, const grid_node *);
int boundary_description_destroy(boundary_description **);
#endif

#endif //PremiaCurrentVersion
```

References