

## Help

```
#if defined(PremiaCurrentVersion) && PremiaCurrentVersion < (2008+2) //The "#els
#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 STENCIL_OPERATOR_H
#define STENCIL_OPERATOR_H

#include "
href../../common/math/highdim_solver/cps_types_h_src.pdfcps_types.h"

#define STENCIL_OP_UXX  0xA7
#define STENCIL_OP_YYY  0xA6
#define STENCIL_OP_UXY  0xA5
#define STENCIL_OP_UX   0xA4
#define STENCIL_OP_UY   0xA3
#define STENCIL_OP_U    0xA2

struct stencil_operator_t
{
    unsigned int type;
    unsigned int is_applied;

    stencil *applied_stencil;
    stencil *(*apply)(const pde_term *, const grid *);
};

int stencil_operator_create(stencil_operator **, int);
int stencil_operator_destroy(stencil_operator **);
int stencil_operator_apply(stencil_operator *, const pde_term *, const grid *);
#endif
```

```
#endif //PremiaCurrentVersion
```