

### 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 STENCIL_OPERATOR_H
#define STENCIL_OPERATOR_H

#include "cps_types.h"

#define STENCIL_OP_UXX 0xA7
#define STENCIL_OP_UYY 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_te
    rm *, const grid *);
```

```
#endif
```

```
#endif //PremiaCurrentVersion
```

## References