

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
/*****
    *****/
/*
    */
/*****
    *****/
/*
    */
/* Residual Termination Control
    */
/*
    */
/* Copyright (C) 1992-1995 Tomas Skalicky. All rights res
    erved.
    */
/*
    */
/*****
    *****/
/*
    */
/*      ANY USE OF THIS CODE CONSTITUTES ACCEPTANCE OF TH
    E TERMS
    */
/*      OF THE COPYRIGHT NOTICE (SEE FILE copyright.h
    )
    */
/*
    */
/*****
    *****/

#ifndef RTC_H
#define RTC_H

#include "lastypes.h"
#include "highdim\_vector.h"
#include "itersolv.h"
#include "copyright.h"

```

```
/* identifiers for iteration methods */

typedef enum
{
    /* classical iterative methods */
    JacobiIterId,
    SORForwIterId,
    SORBackwIterId,
    SSORIterId,

    /* semi-iterative methods */
    ChebyshevIterId,

    /* CG and CG-like methods */
    CGIterId,
    CGNIterId,
    GMRESIterId,
    BiCGIterId,
    QMRIterId,
    CGSIterId,
    BiCGSTABIterId,

    /* multigrid and multigrid based methods */
    MGIterId,
    NestedMGIterId,
    MGPCGIterId,
    BPXPCGIterId
} IterIdType;

typedef Boolean(*RTCAuxProcType)(int, double, double, IterIdType);

void SetRTCAccuracy(double Eps);
void SetRTCAuxProc(RTCAuxProcType AuxProc);
Boolean RTCResult(int Iter, double rNorm, double bNorm,
    IterIdType IterId);
int GetLastNoIter(void);
double GetLastAccuracy(void);

#endif /* RTC_H */
```

```
#endif //PremiaCurrentVersion
```

References