

[Help](#)

```

#if defined(PremiaCurrentVersion) && PremiaCurrentVersion < (2008+2) //The "#els
#else
/*****
/*                                rtc.h                                */
/*****
/*                                */
/* Residual Termination Control                                */
/*                                */
/* Copyright (C) 1992-1995 Tomas Skalicky. All rights reserved.    */
/*                                */
/*****
/*                                */
/*      ANY USE OF THIS CODE CONSTITUTES ACCEPTANCE OF THE TERMS    */
/*      OF THE COPYRIGHT NOTICE (SEE FILE COPYRGHT.H)                */
/*                                */
/*****

#ifndef RTC_H
#define RTC_H

#include "lastypes.h"
#include "highdim_vector.h"
#include "itersolv.h"
#include "copyrght.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
```