```
   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
/*************************************************************
    ******************/
/*                                      rtc.h
                     */
/*************************************************************
    ******************/
/*
                     */
/* 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 copyrght.h
    )                */
/*
                     */
/*************************************************************
    ******************/

#ifndef RTC_H
#define RTC_H

#include "laspack/lastypes.h"
#include "laspack/highdim_vector.h"
#include "laspack/itersolv.h"
#include "laspack/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
```

References