```
   Help
#ifndef  _LIMDISC_H
#define _LIMDISC_H

#include "optype.h"
#include "var.h"

#include "chk.h"
#include "numfunc.h"

#define TYPEOPT LIMDISC

/*Limit Option// Single barrier*/

typedef struct TYPEOPT{
  VAR Maturity;
  VAR Limit;     /*The Limit definition:
      * starting_date is in Limit->[0],
      * final_date(always equal to maturity for this fam
    ily, so useless)is in Limit->Par[1],
      * frequency is in Limit->Par[2],
      * the value of the limit is in Limit->Par[3]
      * !!!!!WARNING!!!!!
      * Wether the limit is backard/forward
      * should be tested in ChkOpt
      */
  VAR PayOff;
  VAR Rebate;
  VAR OutOrIn;
  VAR DownOrUp;
  VAR RebOrNo;
  VAR EuOrAm;
  VAR PartOrTot; /*Partial Or Total limit
     * a partial limit is specified
     * by starting_date, final_date
     */
  VAR ContOrDisc;/*Continuous or Discrete:
      *   a discrete limit is specified
      *   by frequency (regular sampling)
      */
  VAR ConstLim;  /*YES for constant limit*/
```

```
} TYPEOPT;

int OPT(Get)(int user,Planning *pt_plan,Option *opt, Model
    *mod);
int OPT(FGet)(char **InputFile,int user,Planning *pt_plan,
    Option *opt, Model *mod);
int OPT(Show)(int user,Planning *pt_plan,Option *opt,
    Model *mod);
int OPT(Check)(int user,Planning *pt_plan,Option *opt);

#endif
```

References