```
    Help
#ifndef  _LIM_H
#define _LIM_H

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

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

#define TYPEOPT LIM

/*Limit Option// Single barrier*/

typedef struct TYPEOPT{
  /* setable */
  VAR Maturity;
  VAR Limit;       /*The Limit definition:
       * starting_date is in Limit->[0],
       * final_date is in Limit->Par[1],
       * frequency is in Limit->Par[2],
       * the value of the Limit in case of a constant     limit is in Limit->Par
       * Parisian delay is in Limit->Par[4],
       * !!!!!WARNING!!!!!
       * Wether the limit is backard/forward
       * should be tested in ChkOpt
       */
  VAR PayOff;
  VAR Rebate;
  /* non setable */
  VAR OutOrIn;
  VAR Parisian;
  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