```
Help
#include "optype.h"
#include "var.h"
#include "tools.h"
#include "pnl/pnl random.h"
#include "error_msg.h"
extern char *path_sep;
int CHK_ok(int user, Planning *pt_plan,void* dum)
       return OK;
}
int CHK_call(int user, Planning *pt_plan,void* dum)
       NumFunc 1* payoff=(NumFunc 1*)dum;
        int status=OK;
        status+=ChkParVar(pt plan,payoff->Par);
        return status;
int CHK_callspread(int user, Planning *pt_plan,void* dum)
        NumFunc_1* payoff=(NumFunc_1*)dum;
        int status=OK;
        status+=ChkParVar(pt_plan,payoff->Par);
        if (payoff->Par[1].Val.V PDOUBLE<payoff->Par[0].Val.V PDO
                UBLE)
                {
                        \label{thm:condition} Fprintf(TOSCREENANDFILE, "\%s: lower than \%s\{n", payoff-lower than \%s\{n", payoff-lower than \%s\{n matter than matter that matter than matter that matter than matter that matter than matter that matter than matter
                >Par[1].Vname,payoff->Par[0].Vname);
                        status+=1;
                }
        return status;
```

```
int CHK_digit(int user, Planning *pt_plan,void* dum)
{
  NumFunc_1* payoff=(NumFunc_1*)dum;
  int status=OK;
  status+=ChkParVar(pt_plan,payoff->Par);
 return status;
}
int CHK_tree(int user, Planning *pt_plan,void* dum)
  PricingMethod* Met=(PricingMethod*)dum;
  int status=OK;
  status+=ChkParVar(pt_plan,Met->Par);
  return status;
}
int CHK_mc(int user, Planning *pt_plan,void* dum)
 PricingMethod* Met=(PricingMethod*)dum;
  int status=OK;
  status+=ChkParVar(pt plan,Met->Par);
 return status;
int CHK mcBaldi(int user, Planning *pt plan, void* dum)
  PricingMethod* Met=(PricingMethod*)dum;
  int status=OK;
  status+=ChkParVar(pt_plan,Met->Par);
  return status;
}
```

```
int CHK fdiff(int user, Planning *pt plan, void* dum)
 PricingMethod* Met=(PricingMethod*)dum;
  int status=OK;
  status+=ChkParVar(pt_plan,Met->Par);
 return status;
int CHK_split(int user, Planning *pt_plan,void* dum)
 PricingMethod* Met=(PricingMethod*)dum;
  int status=OK;
  status+=ChkParVar(pt_plan,Met->Par);
 return status;
}
int CHK_psor(int user, Planning *pt_plan,void* dum)
 PricingMethod* Met=(PricingMethod*)dum;
  int status=OK;
  status+=ChkParVar(pt plan,Met->Par);
 return status;
}
extern int g_dup_printf;
/**
 * chk_mod_gen:
* @param user:
 * @param pt_plan:
 * @param model: the model to be checked
 * general model check function
 */
int chk_model_gen(int user,Planning *pt_plan,Model *model)
```

```
void* pt=(model->TypeModel);
  int status=OK;
  int i, nvar=0;
 VAR *var;
  char helpfile[MAX_PATH_LEN]="";
  if ((2*strlen(model->ID)+strlen("{{mod{{"}} +strlen("{{{"}}})
       +strlen("_doc.pdf"))>=MAX_PATH_LEN)
    {
      Fprintf(TOSCREEN,"%s{n",error_msg[PATH_TOO_LONG]);
      exit(WRONG);
    }
  strcpy(helpfile,path_sep);
  strcat(helpfile, "mod");
  strcat(helpfile,path_sep);
  strcat(helpfile,model->ID);
  strcat(helpfile,path_sep);
  strcat(helpfile,model->ID);
  strcat(helpfile,"_doc.pdf");
 nvar = model->nvar;
 var = ((VAR*) pt);
  for (i=0; i<nvar; i++)</pre>
    {
      status+=ChkVar(pt_plan, &(var[i]));
 return g dup printf ? status : Valid(user, status, helpfil
    e);
}
/**
* chk_opt_gen:
 * Oparam user:
 * @param pt_plan:
```

```
* @param opt: the option to be checked
* general option check function
int chk option gen(int user,Planning *pt plan,Option *opt)
{
 void* pt=(opt->TypeOpt);
 int status=OK;
  int i, nvar=0;
 VAR *var;
  char helpfile[MAX_PATH_LEN]="";
  if ((strlen(opt->Name)+strlen(opt->ID)+strlen("{{opt{{")}}
    +strlen("{{")
       +strlen("_doc.pdf"))>=MAX_PATH_LEN)
      Fprintf(TOSCREEN, "%s{n", error msg[PATH TOO LONG]);
      exit(WRONG);
    }
  strcpy(helpfile,path sep);
  strcat(helpfile, "opt");
  strcat(helpfile,path_sep);
  strcat(helpfile,opt->ID);
  strcat(helpfile,path sep);
  strcat(helpfile,opt->Name);
  strcat(helpfile,"_doc.pdf");
 nvar = opt->nvar;
  var = ((VAR*) pt);
  for (i=0; i<nvar; i++)
    {
      if (var[i].Vsetable == SETABLE)
        switch(var[i].Vtype)
          {
          case NUMFUNC 1:
            status+=(var[i].Val.V_NUMFUNC_1)->Check(user,
   pt_plan, var[i].Val.V_NUMFUNC_1);
```

```
break;
    case NUMFUNC_2:
        status+=(var[i].Val.V_NUMFUNC_2)->Check(user,
    pt_plan, var[i].Val.V_NUMFUNC_2);
        break;
        /* should be a type of FirstClass, check for
            * PtVar and PnlVect not implemented */
        default:
            status+=ChkVar(pt_plan, &(var[i]));
        break;
      }
}
return g_dup_printf ? status : Valid(user,status,helpfile);
}
```

References