

```
    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_PDDOUBLE<payoff->Par[0].Val.V_PD0
        UBLE)
    {
        Fprintf(TOSCREENANDFILE,"%s: lower than %s{n",payoff-
        >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_fdifff(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++)
    {
        status+=ChkVar(pt_plan, &(var[i]));
    }
    return g_dup_printf ? status : Valid(user,status,helpfil
        e);
}

```

```

/**
 * chk_opt_gen:
 * @param user:
 * @param pt_plan:

```



```
        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, &(amp;var[i]));
        break;
    }
}
return g_dup_printf ? status : Valid(user,status,helpfil
e);
}
```

References