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    Help
#include "doublim.h"
#include "error_msg.h"

extern char* path_sep;

int OPT(Get)(int user,Planning *pt_plan,Option *opt, Model
    *mod)
{
    TYPEOPT* pt=( TYPEOPT*)(opt->TypeOpt);

    (opt->Init)(opt, mod);

    if (user==TOSCREEN)
        if ((opt->Show)(user,pt_plan,opt,mod))
            do
            {
                Fprintf(TOSCREEN,"-----Option:
                %s\n",opt->Name);

                ScanVar(pt_plan,user,&(pt->Maturity));
                GetParVar(pt_plan,user,(pt->PayOff.Val.V_NUMFUNC_1)->
                Par);

                /*if ((pt->RebOrNo).Val.V_BOOL==REBATE)*/
                GetParVar(pt_plan,user,(pt->Rebate.Val.V_NUMFUNC_1)->
                Par);

                GetParVar(pt_plan,user,(pt->LowerLimit.Val.V_NUMFUNC_1
                )->Par);
                GetParVar(pt_plan,user,(pt->UpperLimit.Val.V_NUMFUNC_1
                )->Par);
            }
            while ((opt->Show)(user,pt_plan,opt,mod));

    return (opt->Show)(TOSCREENANDFILE,pt_plan,opt,mod);
}
int OPT(FGet)(char **InputFile,int user,Planning *pt_plan,
    Option *opt, Model *mod)
{
    TYPEOPT* pt=( TYPEOPT*)(opt->TypeOpt);

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(opt->Init)(opt, mod);

if (user==TOSCREEN)
{
    Fprintf(TOSCREEN, "-----
Option:%s\n", opt->Name);

    FScanVar(InputFile, pt_plan, user, &(pt->Maturity));
    FGetParVar(InputFile, pt_plan, user, (pt->PayOff.Val.V_
NUMFUNC_1)->Par);

    /*if ((pt->RebOrNo).Val.V_BOOL==REBATE)*/
    FGetParVar(InputFile, pt_plan, user, (pt->Rebate.Val.V_
NUMFUNC_1)->Par);

    FGetParVar(InputFile, pt_plan, user, (pt->LowerLimit.Val
.V_NUMFUNC_1)->Par);
    FGetParVar(InputFile, pt_plan, user, (pt->UpperLimit.Val
.V_NUMFUNC_1)->Par);
}

return (opt->Show)(TOSCREENANDFILE, pt_plan, opt, mod);
}

int OPT(Show)(int user, Planning *pt_plan, Option *opt,
Model *mod)
{
    TYPEOPT* pt=(TYPEOPT*)(opt->TypeOpt);

    (opt->Init)(opt, mod);
    Fprintf(user, "##Option:%s\n", opt->Name);

    PrintVar(pt_plan, user, &(pt->Maturity));
    ShowParVar(pt_plan, user, (pt->PayOff.Val.V_NUMFUNC_1)->
Par);

    /*if ((pt->RebOrNo).Val.V_BOOL==REBATE)*/
    ShowParVar(pt_plan, user, (pt->Rebate.Val.V_NUMFUNC_1)->
Par);

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    ShowParVar(pt_plan,user,(pt->LowerLimit.Val.V_NUMFUNC_1)-
        >Par);
    ShowParVar(pt_plan,user,(pt->UpperLimit.Val.V_NUMFUNC_1)-
        >Par);

    return (opt->Check)(user,pt_plan,opt);
}

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extern Option OPT(DoubleCallOutEuro);
extern Option OPT(DoublePutInEuro);
extern Option OPT(DoublePutOutEuro);
extern Option OPT(DoubleCallInEuro);
extern Option OPT(DoubleCallOutAmer);
extern Option OPT(DoublePutInAmer);
extern Option OPT(DoublePutOutAmer);
extern Option OPT(DoubleCallInAmer);
extern Option OPT(ParisianDoubleCallOutEuro);
extern Option OPT(ParisianDoubleCallInEuro);

Option* OPT(family)[]={
    &OPT(DoubleCallOutEuro),
    &OPT(DoublePutOutEuro),
    &OPT(DoubleCallInEuro),
    &OPT(DoublePutInEuro),
    &OPT(DoubleCallOutAmer),
    &OPT(DoublePutOutAmer),
    &OPT(DoubleCallInAmer),
    &OPT(DoublePutInAmer),
    &OPT(ParisianDoubleCallOutEuro),
    &OPT(ParisianDoubleCallInEuro),
    NULL,
};

```

## References