

## Help

```

#include "lim.h"

extern char* path_sep;
extern char **error_msg;

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

    (void)(opt->Init)(opt);

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

                ScanVar(pt_plan,user,&(pt->Maturity));
                GetParVar(pt_plan,user,(pt->Limit.Val.
                V_NUMFUNC_1)->Par);
                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);
            }
            while ((opt->Show)(user,pt_plan,opt));

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

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

    (void)(opt->Init)(opt);

```

```

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

PrintVar(pt_plan, user, &(pt->Maturity));
ShowParVar(pt_plan, user, (pt->Limit.Val.V_
    NUMFUNC_1)->Par);
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);

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

int OPT(Check)(int user, Planning *pt_plan, Option
    *opt)
{
    TYPEOPT* pt=( TYPEOPT*)(opt->TypeOpt);
    int status=OK;
    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");

    status+=ChkVar(pt_plan, &(pt->Maturity));

```

```

status+=(pt->Limit.Val.V_NUMFUNC_1)->Check)(u
    ser,pt_plan,pt->Limit.Val.V_NUMFUNC_1);
status+=(pt->PayOff.Val.V_NUMFUNC_1)->Check)
    (user,pt_plan,pt->PayOff.Val.V_NUMFUNC_1);
status+=(pt->Rebate.Val.V_NUMFUNC_1)->Check)
    (user,pt_plan,pt->Rebate.Val.V_NUMFUNC_1);

    return Valid(user,status,helpfile);
}

```

```

extern Option OPT(PutUpOutEuro);
extern Option OPT(CallDownOutAmer);
extern Option OPT(CallDownOutEuro);
extern Option OPT(CallUpInEuro);
extern Option OPT(CallUpInAmer);
extern Option OPT(CallUpOutAmer);
extern Option OPT(CallUpOutEuro);
extern Option OPT(PutDownInEuro);
extern Option OPT(PutDownInAmer);
extern Option OPT(PutDownOutAmer);
extern Option OPT(PutDownOutEuro);
extern Option OPT(PutUpInEuro);
extern Option OPT(PutUpInAmer);
extern Option OPT(PutUpOutAmer);
extern Option OPT(CallDownInEuro);
extern Option OPT(CallDownInAmer);
extern Option OPT(ParisianCallDownOutEuro);
extern Option OPT(ParisianCallDownInEuro);

```

```

Option* OPT(family) []={
    &OPT(CallDownOutEuro),
    &OPT(PutDownOutEuro),
    &OPT(CallUpOutEuro),
    &OPT(PutUpOutEuro),
    &OPT(CallDownInEuro),
    &OPT(CallUpInEuro),
    &OPT(PutDownInEuro),
    &OPT(PutUpInEuro),
    &OPT(CallDownOutAmer),
    &OPT(PutDownOutAmer),
    &OPT(CallUpOutAmer),

```

```
&OPT(PutUpOutAmer),  
&OPT(CallDownInAmer),  
&OPT(PutDownInAmer),  
&OPT(CallUpInAmer),  
&OPT(PutUpInAmer),  
&OPT(ParisianCallDownOutEuro),  
&OPT(ParisianCallDownInEuro),  
    NULL  
};
```

## References