

[Help](#)

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#include "
href../common/optype_h_src.pdfoptype.h"
#include "
href../common/var_h_src.pdfvar.h"
#include "
href../common/ftools_h_src.pdftools.h"
#include "pnl/pnl_random.h"
#include "
href../common/error_msg_h_src.pdferror_msg.h"

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_PDOUBLE)
    {
        Fprintf(TOSCREENANDFILE, "%s: lower than %s\ n", payoff->Par[1].Vname, pay
        status += 1;
    }

    return status;
}
```

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}

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;
}

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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
 */

```

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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] = "";

    get_model_helpfile(model, helpfile);
    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, helpfile);
}

/**
 * chk_opt_gen:
 * @param 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] = "";

    get_option_helpfile(opt, helpfile);

    nvar = opt->nvar;
    var = ((VAR *) pt);
    for (i = 0; i < nvar; i++)
    {
        if (var[i].Vsetable == SETABLE)

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switch (var[i].Vtype)
{
case NUMFUNC_1:
    status += (var[i].Val.V_NUMFUNC_1)->Check(user, pt_plan, var[i].Val.
    break;
case NUMFUNC_2:
    status += (var[i].Val.V_NUMFUNC_2)->Check(user, pt_plan, var[i].Val.
    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);
}

```