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    Help
#include "optype.h"
#include "var.h"
#include "tools.h"
#include "pnl/pnl_random.h"
#include "error_msg.h"

/**
 * Get_option:
 * @param user:
 * @param pt_plan:
 * @param option:
 *
 * generic function to interactively read the option
 * parameters
 */
int Get_option_gen(int user,Planning *pt_plan,Option *opt,
    Model *mod)
{
    int nvar;
    void* pt=(opt->TypeOpt);
    VAR *var = ((VAR*) pt);
    int i;

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

                for (i=0; i<nvar; i++)
                {
                    ScanVar(pt_plan,user,&(var[i]));
                    if ( var[i].setter ) var[i].setter(opt->Type
Opt);
                }
            }

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        }
        while ((opt->Show)(user,pt_plan,opt,mod));

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

/**
 * FGet_option
 * @param InputFile:
 * @param user:
 * @param pt_plan:
 * @param option:
 * @param model:
 *
 * generic function to read the model parameters from an
 * input file
 */
int FGet_option_gen(char **InputFile,int user,Planning *pt_
plan,Option *opt, Model *mod)
{
    int nvar;
    void* pt=(opt->TypeOpt);
    VAR *var = ((VAR*) pt);
    int i;

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

            for (i=0; i<nvar; i++)
            {
                FScanVar(InputFile,pt_plan,user,&(var[i]));
                if ( var[i].setter ) var[i].setter(opt->Type
Opt);
            }
        }
    return (opt->Show)(TOSCREENANDFILE,pt_plan,opt,mod);
}

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}

/**
 * Generic function to replace the Show member function of
 * the option structures
 *
 * @param user : an integer TOSCREEN or TOFILE
 * @param pt_plan : pointer the planning structure
 * describing what to do
 * @param model : pointer to the model instance
 */
int Show_option_gen(int user,Planning *pt_plan,Option *opt,
    Model *model)
{
    void* pt=(opt->TypeOpt);
    VAR *var = ((VAR*)pt);
    int    nvar = opt->nvar, i;

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

    for (i=0; i<nvar; i++)
    {
        PrintVar(pt_plan,user,&(var[i]));
    }
    return (opt->Check)(user,pt_plan,opt);
}
```

References