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    Help
#include "optype.h"
#include "var.h"
#include "method.h"
#include "error_msg.h"
#include "error_msg.h"

extern char premiasrcdir[MAX_PATH_LEN];
extern char premiamandir[MAX_PATH_LEN];
extern char *path_sep;

#if (defined _WIN32 || defined _MSC_VER)
char * rindex(const char *s, int c)
{
    const char * last = NULL;

    while (*s != '{0}')
    {
        if (*s == c) last = s;
        s++;
    }
    return (char *)last;
}
#else
#include <strings.h>
#endif /* (defined _WIN32 || defined _MSC_VER) */

/*-----PRICINGMETHODS-----
-----*/
int FGetMethod(char **InputFile,int user,Planning *pt_plan,
    Pricing *Pr,PricingMethod *Met,Option *opt)
{
    (Met->Init)(Met,opt);
    if (user==TOSCREEN)
    {
        Fprintf(TOSCREEN,"%s{n",Met->Name);
        if (pt_plan->NumberOfMethods != 0)
            FixMethod(pt_plan,Met);
        FGetParVar(InputFile,pt_plan,user,Met->Par);
    }
}

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    }
    return ShowMethod(TOSCREENANDFILE,pt_plan,Pr,Met,opt);

}

int GetMethod(int user,Planning *pt_plan,Pricing *Pr,PricingMethod *Met,Option *opt)
{
    (Met->Init)(Met,opt);
    if (user==TOSCREEN)
    {
        if (ShowMethod(user,pt_plan,Pr,Met,opt))
        {
            do
            {
                Fprintf(TOSCREEN,"%s\n",Met->Name);
                if (pt_plan->NumberOfMethods != 0)
                    FixMethod(pt_plan,Met);
                GetParVar(pt_plan,user,Met->Par);
            }
            while (ShowMethod(user,pt_plan,Pr,Met,opt));
        }
    }
    return ShowMethod(TOSCREENANDFILE,pt_plan,Pr,Met,opt);
}

int ShowMethod(int user,Planning *pt_plan,Pricing *Pr,PricingMethod *Met,Option *opt)
{
    char helpfile[MAX_PATH_LEN]="";
    int pos;
    char *pdest;

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

    if ((2*strlen(Pr->ID)+4*strlen(path_sep)+strlen("mod") +
        strlen(Met->Name)
        +strlen("_doc.pdf")) >=MAX_PATH_LEN)
    {

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        Fprintf(TOSCREEN,"%s\n",error_msg[PATH_TOO_LONG]);
        exit(WRONG);
    }

    /* strcpy(helpfile,premiamandir); */
    strcat(helpfile,path_sep);
    strcat(helpfile,"mod");
    strcat(helpfile,path_sep);
    pdest=rindex(Pr->ID,'_');
    pos=pdest-Pr->ID;
    strncat(helpfile,Pr->ID,pos);
    strcat(helpfile,path_sep);
    strcat(helpfile,Pr->ID);
    strcat(helpfile,path_sep);
    strcat(helpfile,Met->Name);
    strcat(helpfile,"_doc.pdf");

    if (user==TOSCREEN)
        FixMethod(pt_plan,Met);

    if (user==TOSCREENANDFILE)
        ShowParVar(pt_plan,user,Met->Par);
    else
    {
        if (ShowParVar(pt_plan,user,Met->Par)==OK)
            return Valid(user,(Met->Check)(user, pt_plan, Met)+
                ChkParVar(pt_plan,Met->Par),helpfile);
        else
            return Valid(NO_PAR,ChkParVar(pt_plan,Met->Par),hel
                pfile);
    }
    return OK;
}

int ShowResultMethod(int user,Planning *pt_plan,int error,
    PricingMethod *Met)
{
    if ((error==0)|| (user==NAMEONLYTOFILE))
    {

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        ShowParVar(pt_plan,user,Met->Res);
    }
else
{
    Fprintf(user,"%s\n",error_msg[error]);
}
return OK;
}

int FixMethod(Planning *pt_plan, PricingMethod *pt_method)
{
    int i,j;
    char msg,answer;

    if (pt_plan->NumberOfMethods == 0)
        return OK;

    for (j=0; j<pt_plan->VarNumber && pt_plan->Par[j].Location->Vtype!=PREMIA_NULLTYPE; ++j){
        for (i=0; pt_method->Par[i].Vtype!=PREMIA_NULLTYPE; ++i){
            if (!strcmp(pt_method->Par[i].Vname,pt_plan->Par[j].Location->Vname))
            {
                pt_plan->Par[j].Location = &pt_method->Par[i];
                pt_method->Par[i].Viter=ALREADYITERATED+j;
                return DONOTITERATE;
            }
            else if (CompareParameterNames(pt_method->Par[i].Vname,pt_plan->Par[j].Location->Vname)==OK)
            {
                Fprintf(TOSCREEN,"%nWould you like to iterate {\"%s\" like {\"%s\" {n{t{t (ok: Return, no: n) ? {t\",pt_method->Par[i].Vname, pt_plan->Par[j].Location->Vname);
                answer = (char)tolower(fgetc(stdin));
                msg = answer;
                while( (answer != '{n'}) && (answer != EOF))
                    answer = (char)fgetc(stdin);
                if (msg=='{n')
                {
                    pt_plan->Par[j].Location = &pt_method->Par[i];

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        pt_method->Par[i].Viter=ALREADYITERATED+j;
        return DONOTITERATE;
    }
}

else if (pt_method->Par[i].Vtype == pt_plan->Par[j].
Location->Vtype)
{
    Fprintf(TOSCREEN, "{nWould you like to iterate {\"%s{\"
    like {\"%s{\" {n{t{t (ok: Return, no: n) ? {t\", pt_method->Par[
    i].Vname, pt_plan->Par[j].Location->Vname);
    answer = (char)tolower(fgetc(stdin));
    msg = answer;
    while( (answer != '{n'}) && (answer != EOF))
        answer = (char)fgetc(stdin);
    if (msg=='{n')
    {
        pt_plan->Par[j].Location = &pt_method->Par[i];
        pt_method->Par[i].Viter=ALREADYITERATED+j;
        return DONOTITERATE;
    }
}
}
}
return OK;
}

int CompareParameterNames(const char *s1, const char *s2) /
* */
{
    /* inhibit thr use of the function */
    /*
    This functions compares 2 strings for the occurance of
    one withing the other.
    Returns:
    OK=0      if either string s1 is contained in string s2
    , or if s2 is contained in s1
    (ignoring beginning '#' characters)
    WRONG=1  otherwise.
    */
    int len,i;
    const char *small, *large;

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if (strlen(s1) <= strlen(s2)) {
    small=s1;
    large=s2;
}
else {
    small=s2;
    large=s1;
}
/* strip away beginning '#' characters */

if (small[0]=='#')
    ++small;
if (large[0]=='#')
    ++large;
len=strlen(large);
for (i=0; i<= (int)(len-strlen(small)); ++i)
{
    if (strncmp(small,large,strlen(small))==0)
    {
        return OK;
    }
    ++large;
}
return WRONG;
}
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References