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Help
#include "hullwhite1dgeneralized.h"
#include "chk.h"
#include "error_msg.h"
#include "model.h"
extern char* path_sep;
static PremiaEnumMember capletcurve_members[] =
{
     {"Caplet Volatility Curve 1",1},
     {"Caplet Volatility Curve 2",2},
     {NULL, NULLINT}
};
static DEFINE_ENUM(capletcurve, capletcurve_members);
double MOD(GetYield)(TYPEMOD *pt)
  VAR *Par;
  Par = lookup_premia_enum_par (&(pt->flat_flag), 0);
  return Par[0].Val.V_PDOUBLE;
}
static int MOD(Init)(Model *model)
  VAR *Par;
  TYPEMOD* pt=(TYPEMOD*)(model->TypeModel);
  if (model->init == 0 )
    {
      model->init = 1;
      model->nvar=0;
      pt->T.Vname = "Current Date";
      pt->T.Vtype=DATE;
      pt->T.Val.V_DATE=0.0;
      pt->T.Viter=ALLOW;
      model->nvar++;
```

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pt->flat flag.Vname = "Initial Yield Curve";
      pt->flat flag.Vtype=ENUM;
      pt->flat_flag.Val.V_ENUM.value=0;
      pt->flat_flag.Val.V_ENUM.members=&PremiaEnumFlat;
      pt->flat flag.Viter=ALLOW;
      model->nvar++;
      Par = lookup_premia_enum_par (&(pt->flat_flag),0);
      Par[0].Vname = "Initial Yield";
      Par[0].Vtype=PDOUBLE;
      Par[0].Val.V_PDOUBLE=0.05;
      Par[0].Viter=FORBID;
      Par[0].Vsetable=SETABLE;
      pt->CapletCurve.Vname = "Caplet Curve";
      pt->CapletCurve.Vtype=ENUM;
      pt->CapletCurve.Val.V ENUM.value=1;
      pt->CapletCurve.Val.V_ENUM.members=&capletcurve;
      pt->CapletCurve.Viter=ALLOW;
      model->nvar++;
      pt->a.Vname = "Speed of Mean Reversion";
      pt->a.Vtype=DOUBLE;
      pt->a.Val.V DOUBLE=0.1;
      pt->a.Viter=ALLOW;
      model->nvar++;
    }
 return OK;
TYPEMOD HullWhite1dGeneralized;
MAKEMOD(HullWhite1dGeneralized);
```

## References