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```
Help
#include "inflation_lmm_heston1d.h"
#include "chk.h"
#include "model.h"
extern char* path_sep;
static int MOD(Init)(Model *model)
  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++;
      pt->IO.Vname = "Flat Initial Libor Forward CPI";
      pt->IO.Vtype=PDOUBLE;
      pt->IO.Val.V_PDOUBLE=0.08;
      pt->IO.Viter=ALLOW;
      model->nvar++;
      pt->SigmaI.Vname = "Volatility Libor Forward CPI";
      pt->SigmaI.Vtype=PDOUBLE;
      pt->SigmaI.Val.V PDOUBLE=0.01;
      pt->SigmaI.Viter=ALLOW;
      model->nvar++;
      pt->F0.Vname = "Flat Initial Libor Nominal Rates";
      pt->F0.Vtype=PDOUBLE;
      pt->F0.Val.V_PDOUBLE=0.04;
      pt->FO.Viter=ALLOW;
      model->nvar++;
```

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```
pt->SigmaF.Vname = "Volatility Libor Nominal Rates";
  pt->SigmaF.Vtype=PDOUBLE;
  pt->SigmaF.Val.V_PDOUBLE=0.75;
  pt->SigmaF.Viter=ALLOW;
  model->nvar++;
  pt->Sigma0.Vname = "Current Variance";
  pt->Sigma0.Vtype=DOUBLE;
  pt->Sigma0.Val.V_DOUBLE=0.7;
  pt->SigmaO.Viter=ALLOW;
  model->nvar++;
 pt->SpeedMeanReversion.hname = "Speed of Mean Revers
ion";
  pt->SpeedMeanReversion.htype=DOUBLE;
  pt->SpeedMeanReversion.hal.V_DOUBLE=0.2;
  pt->SpeedMeanReversion.hiter=ALLOW;
  model->nvar++;
  pt->LongRunVariance.Vname = "Long-Run Variance";
  pt->LongRunVariance.Vtype=DOUBLE;
  pt->LongRunVariance.Val.V_DOUBLE=1.4;
  pt->LongRunVariance.Viter=ALLOW;
  model->nvar++;
  pt->Sigma2.Vname = "Volatility of Volatility";
  pt->Sigma2.Vtype=DOUBLE;
  pt->Sigma2.Val.V_DOUBLE=0.001;
  pt->Sigma2.Viter=ALLOW;
  model->nvar++;
  pt->RhoFI.Vname = "RhoFI";
  pt->RhoFI.Vtype=DOUBLE;
  pt->RhoFI.Val.V_DOUBLE=0.0;
  pt->RhoFI.Viter=ALLOW;
  model->nvar++;
  pt->RhoFV.Vname = "RhoFV";
  pt->RhoFV.Vtype=DOUBLE;
  pt->RhoFV.Val.V DOUBLE=0.0;
  pt->RhoFV.Viter=ALLOW;
```

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```
model->nvar++;
      pt->RhoIV.Vname = "RhoIV";
      pt->RhoIV.Vtype=DOUBLE;
      pt->RhoIV.Val.V_DOUBLE=0.4;
      pt->RhoIV.Viter=ALLOW;
      model->nvar++;
      pt->RhoI.Vname = "RhoI";
      pt->RhoI.Vtype=DOUBLE;
      pt->RhoI.Val.V_DOUBLE=0.8;
      pt->RhoI.Viter=ALLOW;
      model->nvar++;
    }
 return OK;
}
TYPEMOD INFLATION_LMM_HESTON1d;
MAKEMOD(INFLATION_LMM_HESTON1d);
```

## References