3 pages 1

```
Help
#include "hullwhite2d.h"
#include "chk.h"
#include "model.h"
#include "error msg.h"
extern PremiaEnum flat;
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++;
      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 r";
      Par[0].Vtype=PDOUBLE;
      Par[0].Val.V_PDOUBLE=0.03;
```

3 pages 2

```
pt->InitialYieldsu.Vname = "Initial u";
      pt->InitialYieldsu.Vtype=PDOUBLE;
      pt->InitialYieldsu.Val.V PDOUBLE=0.0;
      pt->InitialYieldsu.Viter=ALLOW;
      model->nvar++;
      pt->aR. Vname = "Mean Reversion of r";
      pt->aR.Vtype=PDOUBLE;
      pt->aR.Val.V_PDOUBLE=1.;
      pt->aR.Viter=ALLOW;
      model->nvar++;
      pt->SigmaR.Vname = "Volatility of r";
      pt->SigmaR.Vtype=PDOUBLE;
      pt->SigmaR.Val.V_PDOUBLE=0.01;
      pt->SigmaR.Viter=ALLOW;
      model->nvar++;
      pt->bu.Vname = "Mean Reversion of u";
      pt->bu.Vtype=PDOUBLE;
      pt->bu.Val.V_PDOUBLE=0.1;
      pt->bu.Viter=ALLOW;
      model->nvar++;
      pt->Sigmau.Vname = "Volatility of u";
      pt->Sigmau.Vtype=PDOUBLE;
      pt->Sigmau.Val.V_PDOUBLE=0.0145;
      pt->Sigmau.Viter=ALLOW;
      model->nvar++;
      pt->Rho.Vname = "Rho";
      pt->Rho.Vtype=DOUBLE;
      pt->Rho.Val.V DOUBLE=0.6;
      pt->Rho.Viter=ALLOW;
      model->nvar++;
  return OK;
TYPEMOD HullWhite2d;
```

Par[0].Viter=ALLOW;

3 pages

MAKEMOD(HullWhite2d);

References