3 pages 1

```
Help
#include "cir2d stdi.h"
int MOD_OPT(ChkMix)(Option *Opt, Model *Mod)
 TYPEOPT* ptOpt=( TYPEOPT*)(Opt->TypeOpt);
  TYPEMOD* ptMod=( TYPEMOD*)(Mod->TypeModel);
  int status=OK;
  if ((strcmp(Opt->Name, "ZeroCouponCallBondEuro") == 0) || (
    strcmp(Opt->Name, "ZeroCouponPutBondEuro") == 0) || (strcmp(Opt-
    >Name, "ZeroCouponCallBondAmer") == 0) || (strcmp(Opt->Name, "
    ZeroCouponPutBondAmer")==0))
      if ((ptOpt->OMaturity.Val.V_DATE) <= (ptMod->T.Val.V_DA
    TE))
  {
    Fprintf(TOSCREENANDFILE, "Current date greater than
    maturity!{n");
    status+=1;
  }
      if((ptOpt->BMaturity.Val.V_DATE)<=(ptOpt->OMaturity.
    Val.V_DATE))
    Fprintf(TOSCREENANDFILE, "Option maturity greater than
    Bond maturity!{n");
    status+=1;
  }
  if ((strcmp(Opt->Name, "ZCBond")==0))
    {
      if ((ptOpt->BMaturity.Val.V DATE) <= (ptMod->T.Val.V DA
    TE))
  {
    Fprintf(TOSCREENANDFILE, "Current date greater than
   maturity!{n");
    status+=1;
  }
if ((strcmp(Opt->Name, "PayerSwaption") == 0) | | (strcmp(Opt->Na
```

3 pages 2

```
me, "ReceiverSwaption") == 0) | | (strcmp(Opt->Name, "PayerBermuda
    nSwaption")==0)||(strcmp(Opt->Name,"
    ReceiverBermudanSwaption")==0))
     if((ptOpt->BMaturity.Val.V_DATE)<=(ptOpt->OMaturity.
    Val.V DATE))
  {
    {\tt Fprintf} ({\tt TOSCREENANDFILE}, {\tt "Option maturity greater than}
    Bond maturity!{n");
    status+=1;
  }
  if ((strcmp(Opt->Name, "Floor")==0)||(strcmp(Opt->Name, " Cap")==0))
      if ((ptOpt->FirstResetDate.Val.V_DATE)<=(ptMod->T.Val
    .V_DATE))
  {
    Fprintf(TOSCREENANDFILE, "Current date greater than fir
    st coupon date!{n");
    status+=1;
  }
      if ((ptOpt->FirstResetDate.Val.V_DATE)>=(ptOpt->BMatu
    rity.Val.V_DATE))
    Fprintf(TOSCREENANDFILE, "First reset date greater than
     contract maturity!{n");
    status+=1;
  }
  return status;
}
extern PricingMethod MET(AP SWAPTION);
extern PricingMethod MET(MC SWAPTION);
extern PricingMethod MET(MC_CIR2D_TEICHMANNBAYER);
PricingMethod* MOD OPT(methods)[]={
  &MET(AP SWAPTION),
  &MET(MC_SWAPTION),
```

3 pages

```
&MET(MC_CIR2D_TEICHMANNBAYER),
    NULL
};
DynamicTest* MOD_OPT(tests)[]={
    NULL
};

Pricing MOD_OPT(pricing)={
    ID_MOD_OPT,
    MOD_OPT(methods),
    MOD_OPT(tests),
    MOD_OPT(ChkMix)
};
```

References