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Help
#include "hullwhite2d 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, "ZeroCouponBond")==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-
    >Name, "ReceiverSwaption") == 0) | | (strcmp(Opt->Name, "
    PayerBermudanSwaption") == 0) | | (strcmp(Opt->Name, "
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ReceiverBermudanSwaption")==0))
     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, "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(TR_ZBOHW2D);
extern PricingMethod MET(CF ZCBONDHW2D);
extern PricingMethod MET(CF ZBCALLHW2D);
extern PricingMethod MET(CF ZBPUTHW2D);
extern PricingMethod MET(CF CAPHW2D);
extern PricingMethod MET(CF FLOORHW2D);
extern PricingMethod MET(CF EuropeanSwaption HW2D);
extern PricingMethod MET(TR_SWAPTIONHW2D);
extern PricingMethod MET(TR_BERMUDIANSWAPTIONHW2D);
extern PricingMethod MET(TR CAPFLOORHW2D);
extern PricingMethod MET(TR_ZCBONDHW2D);
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PricingMethod* MOD_OPT(methods)[]={
  &MET(TR_ZBOHW2D),
  &MET(CF_ZCBONDHW2D),
  &MET(CF ZBCALLHW2D),
  &MET(CF ZBPUTHW2D),
  &MET(CF_CAPHW2D),
  &MET(CF FLOORHW2D),
  &MET(CF_EuropeanSwaption_HW2D),
  &MET(TR_SWAPTIONHW2D),
  &MET(TR_BERMUDIANSWAPTIONHW2D),
  &MET(TR CAPFLOORHW2D),
 &MET(TR_ZCBONDHW2D),
 NULL
};
DynamicTest* MOD_OPT(tests)[]={
 NULL
};
Pricing MOD_OPT(pricing)={
  ID_MOD_OPT,
 MOD OPT(methods),
 MOD OPT(tests),
 MOD_OPT(ChkMix)
};
```

## References