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#include "vol.h"

static NumFunc_1 putvolatility =
{
    Put,
    {"Strike in volatility terms", PDOUBLE, {100}, ALLOW, SETABLE}, {" ", PREMIA_NULLTYPE, {0}, FORBID, SETABLE}},
    CHK_call
};

static TYPEOPT PutVolatilityEuro =
{
    /*PayOff*/          {"Payoff", NUMFUNC_1, {0}, FORBID, SETABLE},
    /*Maturity*/        {"Maturity", DATE, {0}, ALLOW, SETABLE},
    /*Variance Budget*/ {"Variance Budget", PDOUBLE, {0}, FORBID, UNSETABLE},

    /*EuOrAm*/          {"Euro", BOOL, {EURO}, FORBID, UNSETABLE}
};

static int OPT(Init)(Option *opt, Model *mod)
{
    TYPEOPT *pt = (TYPEOPT *) (opt->TypeOpt);

    if (opt->init == 0)
    {
        opt->init = 1;
        opt->nvar = 4;
        opt->nvar_setable = 2;

        pt->PayOff.Val.V_NUMFUNC_1 = &putvolatility;

        (pt->EuOrAm).Val.V_BOOL = EURO;
        (pt->Maturity).Val.V_DATE = 1.0;
        (pt->VarianceBudget).Val.V_PDOUBLE = 0.0625;

        (pt->PayOff.Val.V_NUMFUNC_1)->Par[0].Val.V_PDOUBLE =

```

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        10.0;  
  
    }  
  
    return OK;  
}  
  
MAKEOPT(PutVolatilityEuro);
```

## References