

## [Help](#)

```
#include "
href../../mod/lmm1d/lmm1d_exoi/lmm1d_exoi_h_src.pdfexoi.h"
static NumFunc_1 call =
{
    Call,
    {"Strike", PDOUBLE, {100}, FORBID, UNSETABLE}, {" ", PREMIA_NULLTYPE, {0}, FORBID, UNSETABLE},
    CHK_call
};

static TYPEOPT CallableInverseFloater =
{
    {"Payoff", NUMFUNC_1, {0}, FORBID, SETABLE}, /* PayOff; */
    {"First Exercise Date", DATE, {0}, ALLOW, SETABLE}, /* FirstExerciseDate; */
    {"Last Payment Date", DATE, {0}, ALLOW, SETABLE}, /* LastPaymentDate; */
    {"Reset Period", PDOUBLE, {0}, ALLOW, SETABLE}, /* Reset Period; */
    {"Nominal Value", PDOUBLE, {0}, ALLOW, SETABLE}, /* Nominal; */
    {"Spread Rate", PDOUBLE, {0}, ALLOW, UNSETABLE}, /* Spread Rate; */
    {"Cap Rate", PDOUBLE, {0}, ALLOW, SETABLE}, /* Cap Rate; */
    {"Strike", PDOUBLE, {0}, ALLOW, SETABLE}, /* Strike; */
    {"Gearing", PDOUBLE, {0}, ALLOW, SETABLE}, /* Gearing; */
    {"Floor Rate", PDOUBLE, {0}, ALLOW, SETABLE}, /* Floor; */
    {"Fixed Rate", PDOUBLE, {0}, ALLOW, UNSETABLE}, /* FixedRate; */
    {"Lower Range Bound", PDOUBLE, {0}, ALLOW, UNSETABLE}, /* LowerRangeBound; */
    {"Upper Range Bound", PDOUBLE, {0}, ALLOW, UNSETABLE}, /* UpperRangeBound; */
    {"CMS1 Maturity", PDOUBLE, {0}, ALLOW, UNSETABLE}, /* CMSMat1; */
    {"CMS2 Maturity", PDOUBLE, {0}, ALLOW, UNSETABLE}, /* CMSMat2; */
};

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

    if (opt->init == 0)
    {
        opt->init = 1;
        opt->nvar = 15;
        opt->nvar_setable = 9;

        pt->PayOff.Val.V_NUMFUNC_1 = &call;
    }
}
```

```

        (pt->FirstExerciseDate).Val.V_DATE = 1.0;
        (pt->LastPaymentDate).Val.V_DATE = 10.0;
        (pt->ResetPeriod).Val.V_PDOUBLE = 1.0;
        (pt->Nominal).Val.V_PDOUBLE = 1.0;
        (pt->Spread).Val.V_PDOUBLE = 0.05;
        (pt->Cap).Val.V_PDOUBLE = 100;
        (pt->Strike).Val.V_PDOUBLE = 0.12;
        (pt->Gearing).Val.V_PDOUBLE = 2.;
        (pt->Floor).Val.V_PDOUBLE = 0.;
        (pt->FixedRate).Val.V_PDOUBLE = 0.07;
        (pt->LowerRangeBound).Val.V_PDOUBLE = 0.;
        (pt->UpperRangeBound).Val.V_PDOUBLE = 0.05;
        (pt->CMSMat1).Val.V_PDOUBLE = 10;
        (pt->CMSMat2).Val.V_PDOUBLE = 2;
    }

    return OK;
}

MAKEOPT(CallableInverseFloater);

```