

[Help](#)

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#include "
href../../mod/bs1d/bs1d_lim/bs1d_lim_h_src.pdflim.h"

static NumFunc_1 call =
{
    Call,
    {"Strike", PDOUBLE, {100}, ALLOW, SETABLE}, {" ", PREMIA_NULLTYPE, {0}, FORBI
    CHK_call
};

static NumFunc_1 rebate =
{
    Const,
    {"Rebate", PDOUBLE, {100}, ALLOW, SETABLE}, {" ", PREMIA_NULLTYPE, {0}, FORBI
    CHK_digit
};

static NumFunc_1 limit =
{
    ConstLim,
    {
        {"StartingDate", DATE, {0}, IRRELEVANT, UNSETABLE},
        {"FinalDate", DATE, {0}, IRRELEVANT, UNSETABLE},
        {"Frequency", PDOUBLE, {0}, IRRELEVANT, UNSETABLE},
        {"Limit", PDOUBLE, {90}, ALLOW, SETABLE},
        {"Delay", SPDOUBLE, {0}, ALLOW, SETABLE},
        {" ", PREMIA_NULLTYPE, {0}, FORBID, SETABLE}
    },
    CHK_digit
};

static TYPEOPT ParisianCallUpInEuro =
{
    /*Maturity*/    {"Maturity", DATE, {0}, ALLOW, SETABLE},
    /*Limit*/       {"Limit", NUMFUNC_1, {0}, FORBID, SETABLE},
    /*PayOff*/      {"Payoff", NUMFUNC_1, {0}, FORBID, SETABLE},

    /*Rebate*/      {"Rebate", NUMFUNC_1, {0}, FORBID, UNSETABLE},
    /*OutOrIn*/     {"In", BOOL, {IN}, FORBID, UNSETABLE},
```

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/*Parisian*/      {"Parisian", BOOL, {TRUE}, FORBID, UNSETABLE},
/*DownOrUp*/      {"Up", BOOL, {DOWN}, FORBID, UNSETABLE},
/*RebNo*/         {"Rebate", BOOL, {REBATE}, FORBID, UNSETABLE},
/*EuOrAm*/         {"Euro", BOOL, {EURO}, FORBID, UNSETABLE},
/*PartOrTot*/      {"Total", BOOL, {TOTAL}, FORBID, UNSETABLE},
/*ContOrDisc*/     {"Cont", BOOL, {CONT}, FORBID, UNSETABLE},
/*ConstLim*/       {"ConstLim", BOOL, {CONSTLIM}, ALLOW, UNSETABLE},
};

```

```

static int OPT(Init)(Option *opt, Model *mod)
{
    TYPEOPT *pt = (TYPEOPT *) (opt->TypeOpt);
    if (opt->init == 0)
    {
        opt->init = 1;
        opt->nvar = 12;
        opt->nvar_setable = 4;

        pt->PayOff.Val.V_NUMFUNC_1 = &call;
        pt->Rebate.Val.V_NUMFUNC_1 = &rebate;
        pt->Limit.Val.V_NUMFUNC_1 = &limit;

        (pt->PayOff.Val.V_NUMFUNC_1)->Par[0].Val.V_PDOUBLE = 100.0;
        (pt->Rebate.Val.V_NUMFUNC_1)->Par[0].Val.V_PDOUBLE = 10.0;

        (pt->OutOrIn).Val.V_BOOL = IN;
        (pt->Parisian).Val.V_BOOL = TRUE;
        (pt->DownOrUp).Val.V_BOOL = UP;
        (pt->RebOrNo).Val.V_BOOL = NOREBATE;
        (pt->EuOrAm).Val.V_BOOL = EURO;
        (pt->PartOrTot).Val.V_BOOL = TOTAL;
        (pt->ContOrDisc).Val.V_BOOL = CONT;
        (pt->ConstLim).Val.V_BOOL = CONSTLIM;

        (pt->Limit.Val.V_NUMFUNC_1)->Par[3].Val.V_PDOUBLE = 110.0;
        (pt->Limit.Val.V_NUMFUNC_1)->Par[4].Val.V_SPDOUBLE = 0.01;
        (pt->Maturity).Val.V_DATE = 1.0;

        /* test for setability */
        if ((pt->RebOrNo).Val.V_BOOL == REBATE)

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        pt->Rebate.Vsetable = SETABLE;
    else
        pt->Rebate.Vsetable = UNSETABLE;

    }

    return OK;
}

MAKEOPT(ParisianCallUpInEuro);
```