

[Help](#)

```
#include "dup1d.h"
#include "chk.h"
#include "error_msg.h"
#include "model.h"
#include "enums.h"

extern char *path_sep;

static int MOD(Init)(Model *model)
{
    TYPEMOD *pt = (TYPEMOD *) (model->TypeModel);
    if (model->init == 0)
    {
        model->init = 1;
        model->nvar = 0;
        pt->T.Vname = "Current Date";
        pt->T.Vtype = DATE;
        pt->T.Val.V_DATE = 0.;
        pt->T.Viter = ALLOW;
        model->nvar++;

        pt->S0.Vname = "Spot";
        pt->S0.Vtype = PDOUBLE;
        pt->S0.Val.V_PDOUBLE = 100.;
        pt->S0.Viter = ALLOW;
        model->nvar++;

        pt->Mu.Vname = "Trend";
        pt->Mu.Vtype = DOUBLE;
        pt->Mu.Val.V_DOUBLE = 0.;
        pt->Mu.Viter = ALLOW;
        model->nvar++;

        pt->Sigma.Vname = "Volatility type";
        pt->Sigma.Vtype = ENUM;
        pt->Sigma.Val.V_ENUM.value = 0;
        pt->Sigma.Val.V_ENUM.members = &PremiaEnumVolatility;
        pt->Sigma.Viter = ALLOW;
```

```
model->nvar++;

pt->Divid.Vname = "Annual Dividend Rate";
pt->Divid.Vtype = DOUBLE;
pt->Divid.Val.V_DOUBLE = 0.;
pt->Divid.Viter = ALLOW;
model->nvar++;

pt->R.Vname = "Annual Interest Rate";
pt->R.Vtype = DOUBLE;
pt->R.Val.V_DOUBLE = 10.;
pt->R.Viter = ALLOW;
model->nvar++;

model->HelpFilenameHint = "DUP1D";

}

return OK;
}

TYPEMOD Dupire1dim;

MAKEMOD(Dupire1dim);
```