

## [Help](#)

```
#include "
href../../mod/mer1d/mer1d_h_src.pdfmer1d.h"
#include "
href../../common/chk_h_src.pdfchk.h"
#include "
href../../mod/hes1d/hes1d_pad/model_h_src.pdfmodel.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";
        pt->Sigma.Vtype = PDOUBLE;
```

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pt->Sigma.Val.V_PDDOUBLE = 0.2;
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++;

pt->Lambda.Vname = "Lambda";
pt->Lambda.Vtype = DOUBLE;
pt->Lambda.Val.V_DOUBLE = 0.1;
pt->Lambda.Viter = ALLOW;
model->nvar++;

pt->Mean.Vname = "Mean of Jumps";
pt->Mean.Vtype = DOUBLE;
pt->Mean.Val.V_DOUBLE = 0.;
pt->Mean.Viter = ALLOW;
model->nvar++;

pt->Variance.Vname = "Variance of Jumps";
pt->Variance.Vtype = DOUBLE;
pt->Variance.Val.V_DOUBLE = 0.16;
pt->Variance.Viter = ALLOW;
model->nvar++;

model->HelpFilenameHint = "MER1D";

}

return OK;
}

```

```
TYPEMOD Merton1dim;  
MAKEMOD(Merton1dim);
```