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```
#include "acdpld.h"
#include "chk.h"
#include "error_msg.h"
#include "model.h"
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->R.Vname = "Annual Interest Rate";
        pt->R.Vtype = DOUBLE;
        pt->R.Val.V_DOUBLE = 10.5;
        pt->R.Viter = ALLOW;
        model->nvar++;

        pt->v.Vname = "Mean Volatility v";
        pt->v.Vtype = DOUBLE;
        pt->v.Val.V_DOUBLE = 0.19;
        pt->v.Viter = ALLOW;
        model->nvar++;

        pt->Lambda.Vname = "Intensity of Poisson : Frequency of the Crisis";
        pt->Lambda.Vtype = DOUBLE;
```

```
    pt->Lambda.Val.V_DOUBLE = 0.005;
    pt->Lambda.Viter = ALLOW;
    model->nvar++;

    pt->D.Vname = "D : ";
    pt->D.Vtype = RGDOUBLE005;
    pt->D.Val.V_RGDOUBLE005 = 0.16;
    pt->D.Viter = ALLOW;
    model->nvar++;
}

return OK;
}

TYPEMOD acdp1d;
MAKEMOD(acdp1d);
```