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```
#include "alsabr21d.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->z0.Vname = "z0";
        pt->z0.Vtype = SPDOUBLE;
        pt->z0.Val.V_SPDOUBLE = 0.05;
        pt->z0.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->mu.Vname = "mu";
pt->mu.Vtype = SNDOUBLE;
pt->mu.Val.V_SNDOUBLE = -0.00005;
pt->mu.Viter = ALLOW;
model->nvar++;

pt->eta.Vname = "eta";
pt->eta.Vtype = SPDOUBLE;
pt->eta.Val.V_SPDOUBLE = 0.1;
pt->eta.Viter = ALLOW;
model->nvar++;

pt->a1.Vname = "a1";
pt->a1.Vtype = SDOUBLE2;
pt->a1.Val.V_SDOUBLE2 = 3.0;
pt->a1.Viter = ALLOW;
model->nvar++;

pt->a2.Vname = "a2";
pt->a2.Vtype = SPDOUBLE;
pt->a2.Val.V_SPDOUBLE = 0.5;
pt->a2.Viter = ALLOW;
model->nvar++;

pt->c1.Vname = "c1";
pt->c1.Vtype = PDOUBLE;
pt->c1.Val.V_PDOUBLE = 1.5;
pt->c1.Viter = ALLOW;
model->nvar++;

pt->c2.Vname = "c2";
pt->c2.Vtype = PDOUBLE;
pt->c2.Val.V_PDOUBLE = 1.5;
pt->c2.Viter = ALLOW;
model->nvar++;
}

return OK;
```

}

```
TYPEMOD alsabr21d;  
MAKEMOD(alsabr21d);
```