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```
#ifndef _MERHES1D_H
#define _MERHES1D_H

#include "optype.h"
#include "var.h"
#include "error_msg.h"
#include "enums.h"

#define TYPEMOD MERHES1D

/*1D MERTON-HESTON World*/
typedef struct TYPEMOD
{
    VAR T;
    VAR SO;
    VAR Divid;
    VAR R;
    VAR Sigma0;
    VAR MeanReversion;
    VAR LongRunVariance;
    VAR Sigma;
    VAR Lambda;
    VAR Mean;
    VAR Variance;
    VAR Rho;
} TYPEMOD;

#endif
```