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#if defined(PremiaCurrentVersion) && PremiaCurrentVersion < (2007+2) //The "#els
#else

#ifndef HULLWHITE1DINCLUDES_H
#define HULLWHITE1DINCLUDES_H

#include<stdlib.h>
#include "
href../../mod/hullwhite1d/hullwhite1d_stdi/hullwhite1d_stdi_h_src.pdfhullwhit
#include "
href../../common/math/read_market_zc/InitialYieldCurve_h_src.pdfmath/read_mar

/// Computation of the two coefficient A(t,T) and B(t,T) used in the price of a
/// These two coefficients are independants of r and u.
void ZCPrice_CoefficientHW1D(ZCMarketData *ZCMarket, double a, double sigma, dou

/// Price of a ZC using the two coefficient A(t,T) and B(t,T) . H&W is a affine
double ZCPrice_Using_CoefficientHW1D(double r_t, double A_tT, double B_tT);

/// Price at date t of a ZC maturing at T, knowing that  $r(t)=r_t$ 
double cf_hw1d_zcb(ZCMarketData *ZCMarket, double a, double sigma, double t, dou

/// Price at date t of a european put on a ZC maturing at T, knowing that  $r(t)=r_t$ 
double cf_hw1d_zbput(ZCMarketData *ZCMarket, double a, double sigma, double S, d

/// Price at date t of a european call on a ZC maturing at T, knowing that  $r(t)=r_t$ 
double cf_hw1d_zbcall(ZCMarketData *ZCMarket, double a, double sigma, double S,

#endif
#endif //PremiaCurrentVersion
```