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Help
#if defined(PremiaCurrentVersion) && PremiaCurrentVersion <</pre>
     (2008+2) //The "#else" part of the code will be freely av
    ailable after the (year of creation of this file + 2)
#else
double Asian_BS_FusaiMeucci(double spot, double strike,
           double maturity, double rf, double dividend
           double sigmaBS,
           int nmonitoringdates,
           double lowlim, double uplim,
                     int nquadpoints, long nfft,
                            double price[], double solutio
    n[],double *delta);
double Asian NIG FusaiMeucci(double spot,
           double strike,
           double maturity,
                   double rf,
           double dividend,
           double alphaNIG, double betaNIG, double delt
    aNIG,
           int nmonitoringdates,
           double lowlim,
           double uplim,
                     int nquadpoints, //n. of qu
    adrature points
           long nfft,
           double price[],
                     double solution[],double *delta);
double Asian_MERTON_FusaiMeucci(double spot, double strike,
           double maturity, double rf, double dividend
           double sgMerton, double alphaMerton,
    double lambdaMerton, double deltaMerton,
           int nmonitoringdates,
           double lowlim, double uplim,
                     int nquadpoints, long nfft,
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double price[], double solution[],
    double *delta);
double Asian CGMY FusaiMeucci(double spot,
           double strike,
           double maturity,
                   double rf,
           double dividend,
           double CCGMY, double GCGMY, double MCGMY,
    double YCGMY,
           int nmonitoringdates,
           double lowlim,
           double uplim,
                     int nquadpoints, //n. of qu
    adrature points
           long nfft,
           double price[],
           double solution[],double *delta);
double Asian DE FusaiMeucci(double spot,
           double strike,
           double maturity,
                   double rf,
           double dividend,
           double sgDE, double lambdaDE, double pDE,
    double eta1DE, double eta2DE,
           int nmonitoringdates,
           double lowlim,
           double uplim,
                     int nquadpoints, //n. of qu
    adrature points
           long nfft,
           double price[],
                            double solution[],double *delt
    a);
//OUTPUT: Contains the solution
                                         //modello
double DiscreteAsian(int model,
                     double spot,
           double strike,
                   double rf,
           double dt,
```

```
int ndates,
           double lowlim,
           double uplim,
                     int npoints, //n. of quadra
    ture points
                               //n. of points fo
           long nfft,
    r the fft inversion
           double ModelParameters[], //the paramete
    rs of the model
           double price[],
           double solution[],double *delta);
    /OUTPUT: Contains the solution
//compute the moments of L
void newmomentsAM(int model, double rf, double dt, int max
    moment.
          int ndates, double parameters[], double **
    momtable);
//compute the moments of the arithemtic average given the
    moments of L
void newmomentsArithM(int ndates, double Lmoments[],
    double *AvgMoments);
//compute the probability bound
//using the moment bound
double boundAM(int model, double bound, double rf, double
    dt, int maxmoment,
          int ndates, double parameters[], double
    moments[]);
//We find in an authomatic way the extremes of integration
int findlowuplimit(int model, double rf, double dt, int
    maxnummoments,
          int ndates, double lowfactor, double up
    factor,
          double parameters[], double extremes[]);
#endif //PremiaCurrentVersion
```

References