2 pages 1

```
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
void matmat(double **a, int nra, int nca, double **b, int
  ncb, double **prod);
/*----
Postmultiplies the matrix a[0..nra-1][0..nca-1] by the
  matrix
b[0..nca-1][0..ncb-1] and returns the product in the matr
prod[0..nra-1][0..ncb-1].
_____
void matvec(double **a, int nra, int nca, double *x,
  double *b);
/*-----
Postmultiplies the matrix a[0..nra-1][0..nca-1] by the vec
x[0..nca-1] and returns the product in the vector b[0..nra
______
  ----*/
void transpose(double **a, int nr, int nc, double **at);
/*----
Returns the transpose of a[0..nr-1][0..nc-1] as
at[0..nc-1][0..nr-1].
______
  ----*/
void vecmat(double *x, double **a, int nra, int nca,
  double *b);
/*-----
  -----
```

2 pages

```
Premultiplies the matrix a[0..nra-1][0..nca-1] by the vec
x[0..nra-1] and returns the product in the vector b[0..nc]
_____
   ----*/
double vecvec(double *first1, double* last1, double* first2
   );
/*----
Returns the inner product between the vectors u[0..n-1] and
v[0..n-1].
_____
   ----*/
//void pairwdiff(double* first1, double* last1, double* fir
   st2, double* last2, double* dest);
void pairwdiff(int n, double* x, double* y, double **de
   st);
/*----
Computes the pairwise differences between the elements in
[first1, last1) and the elements in [first2, last2) and pl
   aces them
in dest. dest must be large enough to hold all of the m *
differences, where m = last1 - first1 and n = last2 - fir
   ----*/
```

#endif //PremiaCurrentVersion

## References