Vector2Diag

IMPORTS

PBblas | PBblas.internal | PBblas.internal.MatDims | PBblas.Types | PBblas.internal.Types | PBblas.Constants |

DESCRIPTIONS

FUNCTION **Vector2Diag**

`DATASET(Layout_Cell)`	**Vector2Diag**
`(DATASET(Layout_Cell) X)`	

Convert a vector into a diagonal matrix. The typical notation is D = diag(V). The input X must be a 1 x N column vector or an N x 1 row vector. The resulting matrix, in either case will be N x N, with zero everywhere except the diagonal.

PARAMETER **X** A row or column vector (i.e. N x 1 or 1 x N) in Layout_Cell format

RETURN An N x N matrix in Layout_Cell format

SEE PBblas/Types.Layout_cell