

Function index

In the descriptions below, matrices are represented by capital letters, vectors by lower case letters and scalars by greek lower case letters.

Function	Description	Page
<code>band2mat()</code>	Convert band matrix to dense matrix	120
<code>bd_free()</code>	Deallocate (destroy) band matrix	68
<code>bd_get()</code>	Allocate and initialise band matrix	70
<code>bd_transp()</code>	Transpose band matrix	120
<code>bd_resize()</code>	Resize band matrix	77
<code>bdLDLfactor()</code>	Band LDL^T factorisation	121
<code>bdLDLsolve()</code>	Solve $Ax = b$ using band LDL^T factors	121
<code>bdLUfactor()</code>	Band LU factorisation	124
<code>bdLUsolve()</code>	Solve $Ax = b$ using band LU factors	124
<code>bisvd()</code>	SVD of bi-diagonal matrix	143
<code>BKPfactor()</code>	Bunch–Kaufman–Parlett factorisation	116
<code>BKPsolve()</code>	Bunch–Kaufman–Parlett solver	116
<code>catch()</code>	Catch a raised error (macro)	51
<code>catchall()</code>	Catch any raised error (macro)	51
<code>catch_FPE()</code>	Catch floating point error (sets flag)	51
<code>CHfactor()</code>	Dense Cholesky factorisation	118
<code>CHsolve()</code>	Cholesky solver	118
<code>d_save()</code>	Save real in MATLAB format	91
<code>Dsolve()</code>	Solve $Dx = y$, D diagonal	135
<code>ERRABORT()</code>	Abort on error (sets flag, macro)	57
<code>ERREXIT()</code>	Exit on error (sets flag, macro)	57
<code>error()</code>	Raise an error (macro, see <code>ev_err()</code>)	53
<code>err_list_attach()</code>	Attach new list of errors	53
<code>err_list_free()</code>	Discard list of errors	53
<code>err_is_list_attached()</code>	Checks for an error list	53
<code>ev_err()</code>	Raise an error (function)	53
<code>fft()</code>	Computes Fast Fourier Transform	147
<code>finput()</code>	Input a simple data item from a stream	67