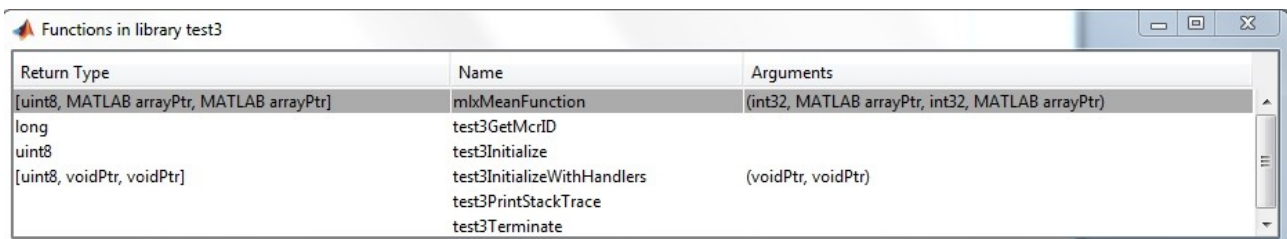


Mean Function in Matlab

```
function y=MeanFunction(x)
    [m,n]=size(x);
    k=0;
    for i=1:n
        k=k+x(i);
    end
    y=k/n;
```

Infos über DLL



Return Type	Name	Arguments
[uint8, MATLAB arrayPtr, MATLAB arrayPtr]	mxMeanFunction	(int32, MATLAB arrayPtr, int32, MATLAB arrayPtr)
long	test3GetMcrID	
uint8	test3Initialize	
[uint8, voidPtr, voidPtr]	test3InitializeWithHandlers	(voidPtr, voidPtr)
	test3PrintStackTrace	
	test3Terminate	

Infos aus Header file

```
extern LIB_MeanFunctionLib_C_API
bool MW_CALL_CONV mxMeanFunction(int nlhs, mxArray *plhs[], int nrhs, mxArray *prhs[]);
```

Wie übersetzen in DllCall?

```
#include <Array.au3>

; Beispiels-Vector
Local $avArray[3]
$avArray[0] = 1
$avArray[1] = 2
$avArray[2] = 3

_ArrayDisplay($avArray, "$avArray")

; Aufruf DLL
$dll_path="C:\Users\Documents\MATLAB\test3\src\test3.dll"
$dll=DllOpen ($dll_path)
MsgBox(0,"test",$dll)

$result =DllCall ($dll_path, "int", "mxMeanFunction", "ptr", $avArray )
msgbox(0, "", $result[0])

DllClose($dll)
```