# mexMakeMemoryPersistent (C and Fortran)

Make memory allocated by MATLAB software persist after MEX-function completes

## C Syntax

```
#include "mex.h"
void mexMakeMemoryPersistent (void *ptr);
```

## Fortran Syntax

```
subroutine mexMakeMemoryPersistent (ptr)
mwPointer ptr
```

## Arguments

`ptr`

Pointer to the beginning of memory allocated by one of the MATLAB memory allocation routines

## Description

By default, memory allocated by MATLAB software is nonpersistent, so it is freed automatically when the MEX-function finishes. If you want the memory to persist, you must call `mexMakeMemoryPersistent`.

> **Note** If you create persistent memory, you are responsible for freeing it when the MEX-function is cleared. If you do not free the memory, MATLAB leaks memory. To free memory, use `mxFree`. See `mexAtExit` to see how to register a function that gets called when the MEX-function is cleared. See `mexLock` to see how to lock your MEX-function so that it is never cleared.

## See Also

`mexAtExit`, `mexLock`, `mexMakeArrayPersistent`, `mxCalloc`, `mxFree`, `mxMalloc`, `mxRealloc`