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# SY10InitializeCriticalSection

**SY** = *System function*

The SY10InitializeCriticalSection function initializes a critical section pooling information.

## IMPLEMENTATION

### SY10InitializeCriticalSection(pool)

Parameters:

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM
IN	ARRGBL	pool	B Critical section pools information

Description:

Every critical section bases its inner workings on a proprietary data structure called *pool* informations.

Every critical section will have its own *pool* that must be initialized before it can be used.

The *pool* consists of an array of bytes where the number of items depends on the number of task unit that will use more two-byte fixed header.

Inglese Italiano If for example a given critical section is used in only two drives task you create an application pool of 4 byte making sure that a unit must use the ID 1 while the second the ID 2.

The ID are progressive starting from 1 and identify the location of the information in the pool, then pass an ID with index not available in the pool means invalidating the call and how it works.

**NB:** To avoid problems it is advisable to size the pool information with sufficient size to address all drives task.

### Example

In the following example initializes an information pool used then to a critical section.

#### configuration unit:

```
; critical section consts
CONST
  CS_POOL_HEADER      2      ; fixed header in critical section pool info
  CS_POOL_SIZE        10     ; critical section pool info size
ARRGBL
  LockPool            B      CS_POOL_HEADER + CS_POOL_SIZE
```

#### Unit initialization:

```
====
; Initialize system
;
GLOBAL
  Initialized          F      OUT
; main entry point
BEGIN
  CALL TASK_INIT
  WHILE TRUE
    CALL TASK_EXECUTE
    WAIT A_LOOP
  ENDWHILE
END
;====
; Task initialization
;
SUB TASK_INIT
  SY10InitializeCriticalSection(LockPool)
  Initialized = TRUE
ENDSUB
;====
; Task execution
;
SUB TASK_EXECUTE
  SUSPEND
ENDSUB
```

### Note

- The function must be performed only once during application initialization.
- The [SY10EnterCriticalSection](#) and [SY10LeaveCriticalSection](#) functions, should not be called before you

have initialized the critical section with [SY10InitializeCriticalSection](#).

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