xEventGroupCreate()

[Event Group API]

Available From FreeRTOS V8.0.0

event_groups.h

```
EventGroupHandle_t xEventGroupCreate( void );
```

Create a new RTOS event group. This function cannot be called from an interrupt.

Event groups are stored in variables of type EventGroupHandle_t. The number of bits (or flags) implemented within an event group is 8 if configUSE_16_BIT_TICKS is set to 1, or 24 if configUSE_16_BIT_TICKS is set to 0. The dependency on configUSE_16_BIT_TICKS results from the data type used for thread local storage in the internal implementation of RTOS tasks.

The RTOS source file `FreeRTOS/source/event_groups.c` must be included in the build for the xEventGroupCreate() function to be available.

Parameters:

None

Returns:

If the event group was created then a handle to the event group is returned. If there was insufficient FreeRTOS heap available to create the event group then NULL is returned.

Example usage:

```
/* Declare a variable to hold the created event group. */
EventGroupHandle_t xCreatedEventGroup;

/* Attempt to create the event group. */
xCreatedEventGroup = xEventGroupCreate();

/* Was the event group created successfully? */
if( xCreatedEventGroup == NULL )
{
    /* The event group was not created because there was insufficient
    FreeRTOS heap available. */
}
else
{
    /* The event group was created. */
}
```

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