ThreadGroupCreate

ThreadGroupCreate(*nt*)

The ThreadGroupCreate function creates a thread group containing *nt* threads and returns a thread ID number. Use the number of computer processors for *nt* when trying to improve computation speed using parallel threads. A background worker might use just one thread regardless of the number of processors.

See Also

ThreadSafe Functions on page IV-106 and **ThreadSafe Functions and Multitasking** on page IV-329.

ThreadGroupGetDF

ThreadGroupGetDF(*tgID*, *waitms*)

ThreadGroupGetDFR should be used instead of ThreadGroupGetDF which causes memory leaks.

The ThreadGroupGetDF function retrieves a data folder path string from a thread group queue and removes the data folder from the queue.

When called from a preemptive thread it returns a data folder from the thread group's input queue. When called from the main thread it returns a data folder from the thread group's output queue.

tgID is a thread group ID returned by **ThreadGroupCreate**. You can pass 0 for *tgID* when calling ThreadGroupGetDF from a preemptive thread. You must pass a valid thread group ID when calling ThreadGroupGetDF from the main thread.

waitms is the maximum number of milliseconds to wait for a data folder to become available in the queue. Pass 0 to test if a data folder is available immediately. Pass INF to wait indefinitely or until a user abort.

ThreadGroupGetDF returns "" if the timeout period specified by *waitms* expires and no data folder is available in the queue.

See Also

ThreadSafe Functions on page IV-106 and **ThreadSafe Functions and Multitasking** on page IV-329.

The **ThreadGroupGetDFR** function.

ThreadGroupGetDFR

ThreadGroupGetDFR(*tgID*, *waitms*)

The ThreadGroupGetDF function retrieves a data folder reference from a thread group queue and removes the data folder from the queue. The data folder becomes a free data folder.

When called from a preemptive thread it returns a data folder from the thread group's input queue. When called from the main thread it returns a data folder from the thread group's output queue.

tgID is a thread group ID returned by **ThreadGroupCreate**. You can pass 0 for *tgID* when calling ThreadGroupGetDFR from a preemptive thread. You must pass a valid thread group ID when calling ThreadGroupGetDFR from the main thread.

waitms is the maximum number of milliseconds to wait for a data folder to become available in the queue. Pass 0 to test if a data folder is available immediately. Pass INF to wait indefinitely or until a user abort.

ThreadGroupGetDFR returns a NULL data folder reference if the timeout period specified by *waitms* expires and no data folder is available in the queue. You can test for NULL using **DataFolderRefStatus**.

See Also

ThreadSafe Functions on page IV-106, **ThreadSafe Functions and Multitasking** on page IV-329 and **Free Data Folders** on page IV-96.

ThreadGroupPutDF

ThreadGroupPutDF *tgID*, *datafolder*

The ThreadGroupPutDF operation posts data to a preemptive thread group.

Parameters

tgID is thread group ID returned by **ThreadGroupCreate**, datafolder is the data folder you wish to send to the thread group.