

[Accelerate](#) / `BNNSGraphContextSetStreamingAdvanceCount(_:_:)`

Function

BNNSGraphContextSetStreamingAdvanceCount(_:_:)

Sets the streaming advancement amount for cases with dynamically shaped inputs.

iOS 18.4+ | iPadOS 18.4+ | Mac Catalyst 18.4+ | macOS 15.4+ | tvOS 18.4+ | visionOS 2.4+ | watchOS 11.4+

```
func BNNSGraphContextSetStreamingAdvanceCount(  
    _ context: bnns_graph_context_t,  
    _ advance_count: Int  
) -> Int32
```

Parameters

context

The graph context.

advance_count

An integer value that specifies the number of elements by which the function advances the internal state pointer.

Discussion

BNNS can't unambiguously determine the streaming advancement size for models you compile with the BNNSOption attribute StateMode=Streaming in an enabled state, where slice_update operations use an update parameter of dynamic shape. Call this function before calling [BNNSGraphContextExecute\(_ : : : : : \)](#) to set the advancement size for each frame.

This function advances the internal state pointer by `advance_count` elements in the streaming dimension before returning from `BNNSGraphContextExecute(: : : : : :)`.

Note

The BNNS streaming APIs do not support models that require different advancement amounts for different states.

See Also

Specifying and querying a context's properties

`func BNNSGraphContextSetArgumentType(bnns_graph_context_t, BNNSGraphArgumentType) -> Int32`

Specifies the argument type for a graph context.

`struct BNNSGraphArgumentType`

Constants that specify the argument type for a graph context.

`func BNNSGraphContextSetDynamicShapes(bnns_graph_context_t, UnsafePointer<CChar>?, Int, UnsafeMutablePointer<bnns_graph_shape_t>) -> Int32`

Specifies the dynamic shapes for a graph and, if possible, infers, the output shapes.

`struct bnns_graph_shape_t`

The specification of the shape of an argument.

`func BNNSGraphContextSetBatchSize(bnns_graph_context_t, UnsafePointer<CChar>?, UInt64) -> Int32`

Sets the batch size for a graph.

`func BNNSGraphContextEnableNanAndInfChecks(bnns_graph_context_t, Bool)`

Specifies that the context checks intermediate tensors for NaNs and infinities.

`func BNNSGraphContextGetWorkspaceSize(bnns_graph_context_t, UnsafePointer<CChar>?) -> Int`

Returns the minimum size, in bytes, of the workspace that graph context execution requires.