

Accelerate

Function

BNSGraphGetArgumentInterleaveFactors(_:_:_:_:_:)

Returns the interleave factors for arguments, if present

iOS 18.0+ | iPadOS 18.0+ | Mac Catalyst 18.0+ | macOS 15.0+ | tvOS 18.0+ | visionOS 2.0+ | watchOS 11.0+

```
func BNNSGraphGetArgumentInterleaveFactors(
    _ graph: bnns_graph_t,
    _ function: UnsafePointer<CChar>?,
    _ argument_count: Int,
    _ argument_interleave: UnsafeMutablePointer<UnsafePointer<UInt16>?>,
    _ argument_interleave_counts: UnsafeMutablePointer<Int>
) -> Int32
```

Discussion

If any arguments to the function are specified with an interleave factor (e.g. using the `interleave` option to `tensor_buffer` in MIL), this function can be used to retrieve the interleave factor array.

Arguments:

- `graph`: object to query.
- `function`: function to query. It may be NULL if there is only one function.
- `argument_count`: number of elements in `argument_interleave` and in `argument_interleave_counts`.
- `argument_interleave`: array of pointers to interleave factors to populate. On exit `argument_interleave[i]` will be set to either:

- NULL if argument `i` has no interleave factor; or
- a pointer into the graph object containing the interleave factors that contains argument `_interleave_counts[i]` elements. Only the first `[0, min(argument_count, argument_interleave))` entries are set.
- `argument_interleave_counts`: gives the size of the array pointed to by argument `_interleave[i]`, or is set to 0 if argument `_interleave[i]` is set to NULL.

Returns: 0 on success, nonzero on failure. Failure may be caused by either invalid values of graph or function.

See Also

Querying a graph's properties

```
func BNNSGraphGetArgumentIntents(bnns_graph_t, UnsafePointer<CChar>?,  
Int, UnsafeMutablePointer<BNNSGraphArgumentIntent>) -> Int32
```

Extracts the intents of arguments for the given function argument.

```
struct BNNSGraphArgumentIntent
```

Constants that describe argument intents.

```
func BNNSGraphGetArgumentCount(bnns_graph_t, UnsafePointer<CChar>?) ->  
Int
```

Returns the number of arguments for the given function argument.

```
func BNNSGraphGetArgumentNames(bnns_graph_t, UnsafePointer<CChar>?, Int  
, UnsafeMutablePointer<UnsafePointer<CChar>?>) -> Int32
```

Extracts the names of arguments for the given function argument.

```
func BNNSGraphGetFunctionCount(bnns_graph_t) -> Int
```

Returns the number of callable functions in the specified graph.

```
func BNNSGraphGetFunctionNames(bnns_graph_t, Int, UnsafeMutablePointer<  
UnsafePointer<CChar>?>) -> Int32
```

Extracts the names of callable functions in the graph.

```
func BNNSGraphGetInputCount(bnns_graph_t, UnsafePointer<CChar>?) -> Int
```

Returns the number of input arguments for the given function argument.

```
func BNNSGraphGetInputNames(bnns_graph_t, UnsafePointer<CChar>?, Int,  
UnsafeMutablePointer<UnsafePointer<CChar>?>) -> Int32
```

Extracts the names of input arguments for the given function argument.

```
func BNNSGraphGetOutputCount(bnns_graph_t, UnsafePointer<CChar>?) ->  
Int
```

Returns the number of output arguments for the given function argument.

```
func BNNSGraphGetOutputNames(bnns_graph_t, UnsafePointer<CChar>?, Int,  
UnsafeMutablePointer<UnsafePointer<CChar>?>) -> Int32
```

Extracts the names of output arguments for the given function argument.

```
func BNNSGraphGetArgumentPosition(bnns_graph_t, UnsafePointer<CChar>?,  
UnsafePointer<CChar>) -> Int
```

Returns the index into the arguments array for the given function argument.