cuDLA API

API Reference Manual

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Chapter 1. Data Structures

Here are the data structures with brief descriptions:

1.1. cudlaDevAttribute Union Reference

Device attribute.

uint32_t cudlaDevAttribute::deviceVersion

DLA device version. Xavier has 1.0 and Orin has 2.0.

uint8_t cudlaDevAttribute::unifiedAddressingSupported

Returns 0 if unified addressing is not supported.

1.2. cudlaExternalMemoryHandleDesc_t Struct Reference

External memory handle descriptor.

const void *cudlaExternalMemoryHandleDesc_t::extBufObject

A handle representing an external memory object.

unsigned long long cudlaExternalMemoryHandleDesc_t::size

Size of the memory allocation

1.3. cudlaExternalSemaphoreHandleDesc_t Struct Reference

External semaphore handle descriptor.

const void *cudlaExternalSemaphoreHandleDesc_t::extSyncObject

A handle representing an external synchronization object.

1.4. CudlaFence Struct Reference

Fence description.

void *CudlaFence::fence

Fence.

cudlaFenceType CudlaFence::type

Fence type.

1.5. cudlaModuleAttribute Union Reference

Module attribute.

cudlaModuleTensorDescriptor *cudlaModuleAttribute::inputTensorDesc

Returns an array of input tensor descriptors.

uint32_t cudlaModuleAttribute::numInputTensors

Returns the number of input tensors.

uint32_t cudlaModuleAttribute::numOutputTensors

Returns the number of output tensors.

cudlaModuleTensorDescriptor *cudlaModuleAttribute::outputTensorDesc

Returns an array of output tensor descriptors.

1.6. cudlaModuleTensorDescriptor Struct Reference

Tensor descriptor.

1.7. cudlaSignalEvents Struct Reference

Signal events for cudlaSubmitTask

const **cudlaSignalEvents::devPtrs

Array of registered synchronization objects (via cudlaImportExternalSemaphore).

CudlaFence *cudlaSignalEvents::eofFences

Array of fences pointers for all the signal events corresponding to the synchronization objects.

uint32_t cudlaSignalEvents::numEvents

Total number of signal events.

1.8. cudlaTask Struct Reference

Structure of Task.

const **cudlaTask::inputTensor

Array of input tensors.

cudlaModule cudlaTask::moduleHandle

cuDLA module handle.

uint32_t cudlaTask::numInputTensors

Number of input tensors.

uint32_t cudlaTask::numOutputTensors

Number of output tensors.

const **cudlaTask::outputTensor

Array of output tensors.

cudlaSignalEvents *cudlaTask::signalEvents

Signal events.

const cudlaWaitEvents *cudlaTask::waitEvents

Wait events.

1.9. cudlaWaitEvents Struct Reference

Wait events for cudlaSubmitTask.

uint32_t cudlaWaitEvents::numEvents

Total number of wait events.

const CudlaFence *cudlaWaitEvents::preFences

Array of fence pointers for all the wait events.

Chapter 2. Data Fields

Here is a list of all documented struct and union fields with links to the struct/union documentation for each field:

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