



Struct cudaDeviceProp

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- Defined in [File cuda_runtime_wrapper.h](#)

Struct Documentation

struct cudaDeviceProp

Public Members

char name[256]

[cudaUUID_t](#) uuid

char luid[8]

unsigned int luidDeviceNodeMask

size_t totalGlobalMem

size_t sharedMemPerBlock

int regsPerBlock

int warpSize

size_t memPitch

int maxThreadsPerBlock

int maxThreadsDim[3]

int maxGridSize[3]

int clockRate

size_t totalConstMem

int major

int minor

size_t textureAlignment

size_t texturePitchAlignment

int deviceOverlap

```
int multiProcessorCount
int kernelExecTimeoutEnabled
int integrated
int canMapHostMemory
int computeMode
int maxTexture1D
int maxTexture1DMipmap
int maxTexture1DLinear
int maxTexture2D[2]
int maxTexture2DMipmap[2]
int maxTexture2DLinear[3]
int maxTexture2DGather[2]
int maxTexture3D[3]
int maxTexture3DAlt[3]
int maxTextureCubemap
int maxTexture1DLayered[2]
int maxTexture2DLayered[3]
int maxTextureCubemapLayered[2]
int maxSurface1D
int maxSurface2D[2]
int maxSurface3D[3]
int maxSurface1DLayered[2]
int maxSurface2DLayered[3]
int maxSurfaceCubemap
```

```
int maxSurfaceCubemapLayered[2]
size_t surfaceAlignment
int concurrentKernels
int ECCEnabled
int pciBusID
int pciDeviceID
int pciDomainID
int tccDriver
int asyncEngineCount
int unifiedAddressing
int memoryClockRate
int memoryBusWidth
int l2CacheSize
int persistingL2CacheMaxSize
int maxThreadsPerMultiProcessor
int streamPrioritiesSupported
int globalL1CacheSupported
int localL1CacheSupported
size_t sharedMemPerMultiprocessor
int regsPerMultiprocessor
int managedMemory
int isMultiGpuBoard
int multiGpuBoardGroupID
int hostNativeAtomicSupported
```

int singleToDoublePrecisionPerfRatio
int pageableMemoryAccess
int concurrentManagedAccess
int computePreemptionSupported
int canUseHostPointerForRegisteredMem
int cooperativeLaunch
int cooperativeMultiDeviceLaunch
size_t sharedMemPerBlockOptin
int pageableMemoryAccessUsesHostPageTables
int directManagedMemAccessFromHost
int maxBlocksPerMultiProcessor
int accessPolicyMaxWindowSize
size_t reservedSharedMemPerBlock

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