Vulkan Validation Layers

Validation Layers Included in the SDK

The Vulkan SDK includes the following validation layers:

Layer Name	Layer Type	Description
VK_LAYER_KHRONOS_validation	validation	the main, comprehensive Khronos validation layer -- this layer encompasses the entire functionality of the layers listed below, and supercedes them. As the other layers are deprecated this layer should be used for all validation going forward.
VK_LAYER_LUNARG_core_validation	validation	validate the descriptor set, pipeline state, and dynamic state; validate the interfaces between SPIR-V modules and the graphics pipeline; track and validate GPU memory and its binding to objects and command buffers; validate texture

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		formats and render target formats. Includes GPU-Assisted Validation for performing "bind-less" validation checks. *This layer has been deprecated.*
VK_LAYER_LUNARG_object_tracker	validation	track all Vulkan objects and flag invalid objects and object memory leaks. *This layer has been deprecated.*
VK_LAYER_LUNARG_parameter_validation	validation	validate API parameter values. *This layer has been deprecated.*
VK_LAYER_GOOGLE_threading	validation	check validity of multi-threaded API usage. *This layer has been deprecated.*
VK_LAYER_GOOGLE_unique_objects	utility	wrap all Vulkan objects in a unique pointer at create time and unwrap them at use time. *This layer has been deprecated.*

VK_LAYER_LUNARG_standard_validation meta-layer [Deprecated]

To avoid the need to individually specify multiple layers, a built-in meta-layer definition was provided to simplify validation for applications. Specifying this layer definition loaded the standard set of validation layers. As these layers have been deprecated, so has the meta-layer itself and in the interim it will load only the stand-alone Khronos validation layer.

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VK_LAYER_LUNARG_standard_validation
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Use of the meta-layer is no longer recommended -- please replace references to VK_LAYER_LUNARG_standard_validation with VK_LAYER_KHRONOS_validation

See the Layers Overview and Configuration document for more information on how to configure Vulkan validation layers and message logging.