**GPGPU-Sim Learn**

1.GPGPU-Sim源码执行流程

GPGPU-Sim is initialized by the function GPGPUSim\_Init() which is called when the CUDA or OpenCL application performs its first CUDA/OpenCL API call. Our implementation of the CUDA/OpenCL API function implementations either directly call GPGPUSim\_Init() or they call GPGPUSim\_Context() which in turn calls GPGPUSim\_Init(). **An example API call that calls GPGPUSim\_Context() is cudaMalloc().** Note that by utilizing static variables GPGPUSim\_Init() is not called every time a cudaMalloc() is called.

./libcuda/cuda\_runtime\_api.cc cudaMalloc(void \*\*devPtr, size\_t size)

./libcuda/cuda\_runtime\_api.cc GPGPUSim\_Context()

./libcuda/cuda\_runtime\_api.cc GPGPUSim\_Init()

./src/gpgpusim\_entrypoint.cc gpgpu\_ptx\_sim\_init\_perf()

…

./libcuda/cuda\_runtime\_api.cc load\_constants( …)