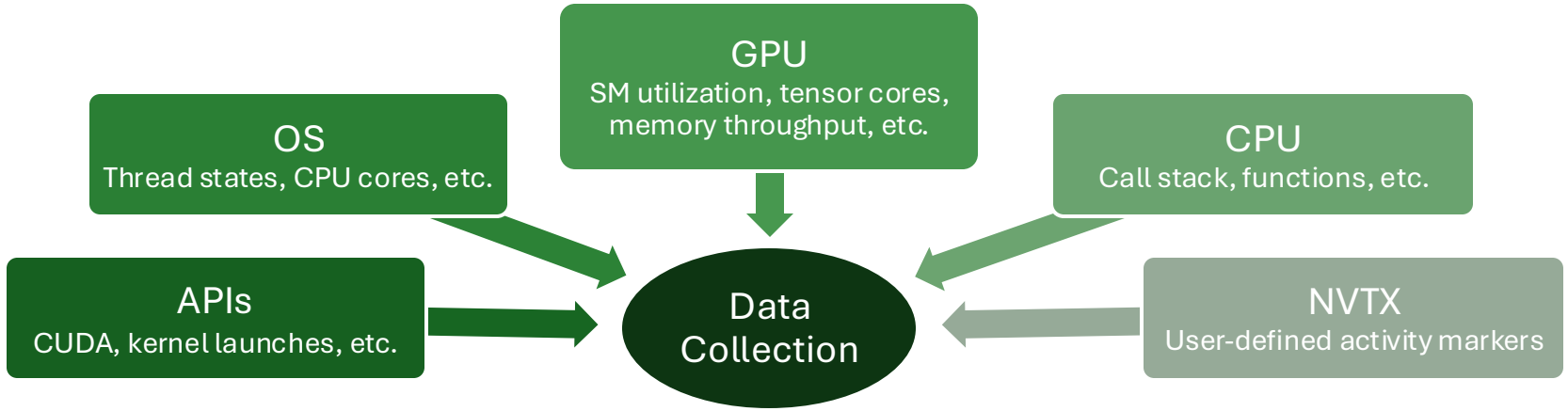
An Intro to Nvidia Nsight Systems

Nov 14 2025

How does it work?

About

- Nsight Systems is a system-wide performance analysis, we can capture activity across the CPU, GPU, and OS!
- Uses low-overhead tracing/sampling to find bottlenecks – thus can't exactly tell you why slowdowns are occurring, just where + when.



Optimization

- If bottleneck is GPU-bound, we can use Nsight Compute to analyze specific kernels (not discussed here)
- Otherwise, profile as normal.

https://docs.nvidia.com/nsight-systems/UserGuide/index.html , https://docs.nvidia.com/nsight-systems/AnalysisGuide/index.html

Installation

- Download from here: https://developer.nvidia.com/nsight-systems/get-started#reqs
  - Needs to be on both your workstation and personal device! (if you are using SSH)
- Set execution privileges in the file via chmod +x NVIDIA_Nsight_Systems_Linux_*.run
- Run ./NVIDIA_Nsight_Systems_Linux_*.run to make it available

Profiling

- **Post-run analysis** (most common/easier to use)
  - Run nsys profile -o report julia script.jl
    - ”report”: name of the output file, ”script”: name of the input file
- **During-run analysis** (not discussed here)
  - Interactive CLI
    - Launch in terminal w/ manual control over what runs
    - Run nsys launch julia –project=.script.jl, nsys start/stop, etc.
  - Interactive GUI
    - Launch in program on remote and view locally as it runs
    - Run ssh -X user@server nsys-ui
- Each method outputs a .nsys-rep file which we can analyze further…

Flag	Description
-o, --output <name>	Filename for output.
-t, --trace <apis>	Select which APIs to trace (ex. cuda, nvtx, osrt, cudnn, mpi)
-y, --delay <s>	Delays start of data collection by s seconds.
-d, --duration <s>	Stops data collection after s seconds.
--capture-range <trigger>	Starts data collection only after a trigger is hit (ex. nvtx).
--stats <bool>	Run nsys automatically after collection finishes.
--export <type>	Export report automatically to another format (ex. sqlite, csv, etc.)

Viewing Results

	CLI Statistics	Expert System	Local GUI*
Command	nsys stats report.nsys-rep	nsys analyze report.nsys-rep	nsys-ui report.nsys-rep
Goal	Quick summary	Interpret results	Visual performance analysis
Output	API, kernel, memory operation, push/pop range, runtime API statistics	Problems identified and suggestions to fix them	Timeline of CPU, GPU, OS activity, analysis summary, diagnostics summary, CPU samples
How	Input .nsys-rep or .sqlite via command in terminal	Input .nsys-rep or .sqlite via command in terminal	Transfer .nsys-rep to local, then run command to open with GUI manually

Analyzing Results - Summaries

** NVTX Range Summary (nvtx_sum):

Time (%)	Total Time (ns)	Instances	Avg (ns)	Med (ns)	Min (ns)	Max (ns)	StdDev (ns)	Style	Range
98.2	817,494,673,463	1	817,494,673,463.0	817,494,673,463.0	817,494,673,463	817,494,673,463	0.0	PushPop	:training
0.9	7,802,688,212	1	7,802,688,212.0	7,802,688,212.0	7,802,688,212	7,802,688,212	0.0	PushPop	:data load/sort
0.3	2,901,489,129	1	2,901,489,129.0	2,901,489,129.0	2,901,489,129	2,901,489,129	0.0	PushPop	:training setup
0.3	2,142,966,883	1	2,142,966,883.0	2,142,966,883.0	2,142,966,883	2,142,966,883	0.0	PushPop	:logging data on cpu
0.2	1,931,465,301	1	1,931,465,301.0	1,931,465,301.0	1,931,465,301	1,931,465,301	0.0	PushPop	:split/mask data
0.0	74,112,316	1	74,112,316.0	74,112,316.0	74,112,316	74,112,316	0.0	PushPop	:initialize structures

Total runtime sectioned by manually defined labels

** OS Runtime Summary (osrt_sum):

Time (%)	Total Time (ns)	Num Calls	Avg (ns)	Med (ns)	Min (ns)	Max (ns)	StdDev (ns)	Name
64.2	3,002,064,744,158	18,034	166,466,937.1	60,341,925.0	7,887	13,296,423,389	251,341,409.9	pthread_cond_wait
17.8	831,959,227,387	8,317	100,031,168.4	100,185,210.0	40,801	100,271,029	3,675,857.1	poll
17.8	830,720,390,129	178	4,666,968,483.9	4,076,016,915.5	51,573	92,424,761,188	6,798,671,870.9	sem_wait
0.1	5,809,310,131	85,299	68,105.3	30,586.0	1,001	73,442,296	818,725.5	ioctl
0.1	5,191,247,801	19,090	271,935.5	1,735.0	1,000	423,826,406	4,847,336.9	epoll_pwait

Total runtime spent in OS calls

Wait/sleep

Wait to sync CPU with GPU

** CUDA API Summary (cuda_api_sum):

Time (%)	Total Time (ns)	Num Calls	Avg (ns)	Med (ns)	Min (ns)	Max (ns)	StdDev (ns)	Name
38.8	148,612,107,965	30,817	4,822,406.7	2,161.0	487	101,562,697	13,318,095.7	cuStreamSynchronize
30.3	116,083,789,409	9,420	12,323,119.9	7,326.0	3,020	121,543,421	31,458,660.2	cudaMemcpyAsync
19.7	75,410,661,702	13,377	5,637,337.3	17,877.0	7,540	112,941,437	22,574,977.9	cuMemcpyDtoHAsync_v2
8.6	32,739,976,279	2,231	14,675,023.0	110,147.0	1,916	53,552,208	23,291,009.6	cuMemcpyHtoDAsync_v2
1.6	6,209,163,333	268,151	23,155.5	1,852.0	468	74,587,910	476,720.9	cuMemAllocFromPoolAsync
0.4	1,353,430,717	281,187	4,813.3	4,171.0	2,336	109,076	3,007.1	cuLaunchKernel
0.2	861,988,465	12,690,765	67.9	64.0	54	41,037	124.9	cuCtxGetId
0.1	419,433,893	4,374	95,892.5	15,246.0	7,964	22,664,014	660,140.6	cuMemGetInfo_v2
0.1	353,944,267	263,858	1,341.4	1,146.0	456	135,219	1,013.8	cuMemFreeAsync
0.1	324,269,345	62,957	5,150.6	4,342.0	2,298	6,564,199	26,639.9	cudaLaunchKernel
0.1	240,087,810	2,884,928	83.2	78.0	60	37,446	133.4	cuStreamGetCaptureInfo

Total runtime spent in CUDA API calls (CPU to GPU)

Copy between CPU and GPU

Analyzing Results - Summaries

Map reduce operation

Total runtime spent on GPU kernels

** CUDA GPU Kernel Summary (cuda_gpu_kern_sum):

Time (%)	Total Time (ns)	Instances	Avg (ns)	Med (ns)	Min (ns)	Max (ns)	StdDev (ns)	Name
21.6	63,705,847,105	1,256	50,721,215.8	50,720,488.0	29,666,776	60,487,571	944,605.3	big_mapreduce_kernel(identity, add_sum, Float32, CartesianIndices<(long)4, Tuple<OneTo<Int64>, OneT…
9.0	26,591,107,128	5,652	4,704,725.3	4,518,912.5	1,666,338	11,114,286	2,422,354.8	maxwell_sgemm_128x64_nn
7.8	22,865,550,173	7,222	3,166,096.7	569,335.5	3,520	35,764,551	8,617,289.2	partial_mapreduce_grid(identity, add_sum, Float32, CartesianIndices<(long)2, Tuple<OneTo<Int64>, On…
6.4	18,885,878,699	2,512	7,518,263.8	7,311,631.5	5,558,973	14,963,747	666,001.3	_Z3_3515CuKernelContext13CuDeviceArrayI7Float32Ll4ELl1EE11BroadcastedI12CuArrayStyleILl4E12DeviceMe…
4.3	12,771,649,360	2,826	4,519,338.1	4,441,086.0	3,215,935	8,492,680	340,737.5	void cudnn::ops::softmax_fw_kernel<(int)2, float, float, (int)256, (int)1, (int)1, (int)0>(cudnnTen…
4.2	12,403,261,525	2,512	4,937,604.1	4,188,164.0	1,705,507	11,716,678	2,622,630.2	maxwell_sgemm_128x64_tn
3.8	11,211,894,386	1,256	8,926,667.5	8,709,272.5	6,512,130	14,497,201	775,162.2	_Z3_3515CuKernelContext13CuDeviceArrayI7Float32Ll4ELl1EE11BroadcastedI12CuArrayStyleILl4E12DeviceMe…
3.6	10,462,384,609	10,048	1,041,240.5	1,095,546.0	105,413	1,862,345	240,679.8	big_mapreduce_kernel(identity, add_sum, Float32, CartesianIndices<(long)3, Tuple<OneTo<Int64>, OneT…
3.2	9,462,120,944	5,652	1,674,119.1	427,953.5	281,163	10,997,354	2,233,286.9	rand_
3.1	9,249,170,326	1,256	7,363,989.1	7,127,206.5	5,449,752	11,282,642	631,553.9	_Z3_3515CuKernelContext13CuDeviceArrayI7Float32Ll4ELl1EE11BroadcastedI12CuArrayStyleILl4E12DeviceMe…
2.9	8,479,060,826	7,065	1,200,150.2	1,178,285.0	687,804	2,012,430	79,460.5	big_mapreduce_kernel(identity, add_sum, Float32, CartesianIndices<(long)3, Tuple<OneTo<Int64>, OneT…
2.7	8,025,000,965	18,369	436,877.4	380,815.0	259,018	1,300,147	125,400.4	sgemm_32x32x32_NN_vec
2.1	6,093,767,743	2,512	2,425,863.0	2,653,878.5	1,183,311	4,717,589	699,504.0	maxwell_sgemm_128x64_nt

Matrix multiplication

Softmax function!

** CUDA GPU MemOps Summary (by Size) (cuda_gpu_mem_size_sum):

Total (MB)	Count	Avg (MB)	Med (MB)	Min (MB)	Max (MB)	StdDev (MB)	Operation
346,443.401	14,633	23.675	0.000	0.000	490.221	99.365	[CUDA memcpy Device-to-Host]
309,264.677	10,395	29.751	0.000	0.000	490.221	116.711	[CUDA memcpy Host-to-Device]
308,007.177	1,949	158.033	0.251	0.000	490.221	228.945	[CUDA memset]
0.251	1	0.251	0.251	0.251	0.251	0.000	[CUDA memcpy Device-to-Device]

Total size of data copied between CPU and GPU

300GB moved!

GPU to CPU = device to host
CPU to GPU = host to device

** CUDA GPU MemOps Summary (by Time) (cuda_gpu_mem_time_sum):

Time (%)	Total Time (ns)	Count	Avg (ns)	Med (ns)	Min (ns)	Max (ns)	StdDev (ns)	Operation
69.0	74,423,104,231	14,633	5,085,977.2	1,312.0	608	112,735,679	21,590,245.3	[CUDA memcpy Device-to-Host]
30.3	32,675,181,216	10,395	3,143,355.6	288.0	192	53,494,511	12,345,307.4	[CUDA memcpy Host-to-Device]
0.7	717,619,740	1,949	368,198.9	2,080.0	896	1,154,125	531,611.4	[CUDA memset]
0.0	2,592	1	2,592.0	2,592.0	2,592	2,592	0.0	[CUDA memcpy Device-to-Device]

Total runtime spent copying data between CPU and GPU

Analyzing Results - Flags

Need to align the ”Start (ns)” timestamp with GUI results and NVTX ranges to actually see/fix where these are occurring.

** CUDA Async Memcpy with Pageable Memory (cuda_memcpy_async):

The following APIs use PAGEABLE memory which causes asynchronous CUDA memcpy operations to block and be executed synchronously. This leads to low GPU utilization.

Suggestion: If applicable, use PINNED memory instead.

Duration (ns)	Start (ns)	Src Kind	Dst Kind	Bytes (MB)	PID	Device ID	Context ID	Green Context ID	Stream ID	API Name
3,264	708,331,341,718	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,201	490,635,513,581	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,200	691,424,137,566	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,168	436,926,016,997	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,168	476,002,368,484	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,168	540,834,903,385	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,168	607,051,797,853	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,168	685,010,654,912	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,168	736,708,602,545	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020
3,137	545,032,652,904	Pageable	Device	0.000	1,487,081	0	1		14	cudaMemcpyAsync_v3020

Flags use of async copy calls from “pageable” memory

Flags where CPU code stops and waits for the GPU

** CUDA Synchronization APIs (cuda_api_sync):

The following are synchronization APIs that block the host until all issued CUDA calls are complete.

Suggestions:
1. Avoid excessive use of synchronization.
2. Use asynchronous CUDA event calls, such as cudaStreamWaitEvent() and cudaEventSynchronize(), to prevent host synchronization.

Duration (ns)	Start (ns)	PID	TID	API Name
21,358	201,393,718,390	1,487,081	1,487,081	cudaStreamSynchronize_v3020
21,148	509,447,792,834	1,487,081	1,487,081	cudaStreamSynchronize_v3020
19,387	386,545,652,284	1,487,081	1,487,081	cudaStreamSynchronize_v3020
18,853	360,501,204,065	1,487,081	1,487,081	cudaStreamSynchronize_v3020
18,789	295,781,369,932	1,487,081	1,487,081	cudaStreamSynchronize_v3020
18,734	195,252,706,731	1,487,081	1,487,081	cudaStreamSynchronize_v3020
18,590	281,498,776,407	1,487,081	1,487,081	cudaStreamSynchronize_v3020
18,493	556,570,724,491	1,487,081	1,487,081	cudaStreamSynchronize_v3020
18,305	257,860,227,015	1,487,081	1,487,081	cudaStreamSynchronize_v3020
17,713	166,635,125,262	1,487,081	1,487,081	cudaStreamSynchronize_v3020

Analyzing Results - Flags

Need to align the "Start (ns)" timestamp with GUI results and NVTX ranges to actually see/fix where these are occurring.

** GPU Gaps (gpu_gaps):

The following are ranges where a GPU is idle for more than 500ms. Addressing these gaps might improve application performance.

Suggestions:
1. Use CPU sampling data, OS Runtime blocked state backtraces, and/or OS Runtime APIs related to thread synchronization to understand if a sluggish or blocked CPU is causing the gaps.
2. Add NVTX annotations to CPU code to understand the reason behind the gaps.

Row#	Duration (ns)	Start (ns)	PID	Device ID	Context ID
1	24,534,746,663	22,013,080,050	1,487,081	0	1
2	7,642,828,674	57,362,953,162	1,487,081	0	1
3	6,484,579,275	49,758,432,874	1,487,081	0	1
4	2,262,561,688	752,539,466,623	1,487,081	0	1
5	1,734,695,195	78,902,762,459	1,487,081	0	1
6	1,683,416,128	69,781,473,034	1,487,081	0	1
7	1,658,646,843	68,110,816,318	1,487,081	0	1
8	1,536,004,811	95,296,873,960	1,487,081	0	1
9	1,502,035,099	90,877,439,109	1,487,081	0	1
10	1,446,803,184	47,901,306,865	1,487,081	0	1

Flags where GPU was found to be idle for >0.5s

Flags where GPU was sub-optimally utilized

** GPU Time Utilization (gpu_time_util):

The following are time regions with an average GPU utilization below 50%%.
Addressing the gaps might improve application performance.

Suggestions:
1. Use CPU sampling data, OS Runtime blocked state backtraces, and/or OS Runtime APIs related to thread synchronization to understand if a sluggish or blocked CPU is causing the gaps.
2. Add NVTX annotations to CPU code to understand the reason behind the gaps.

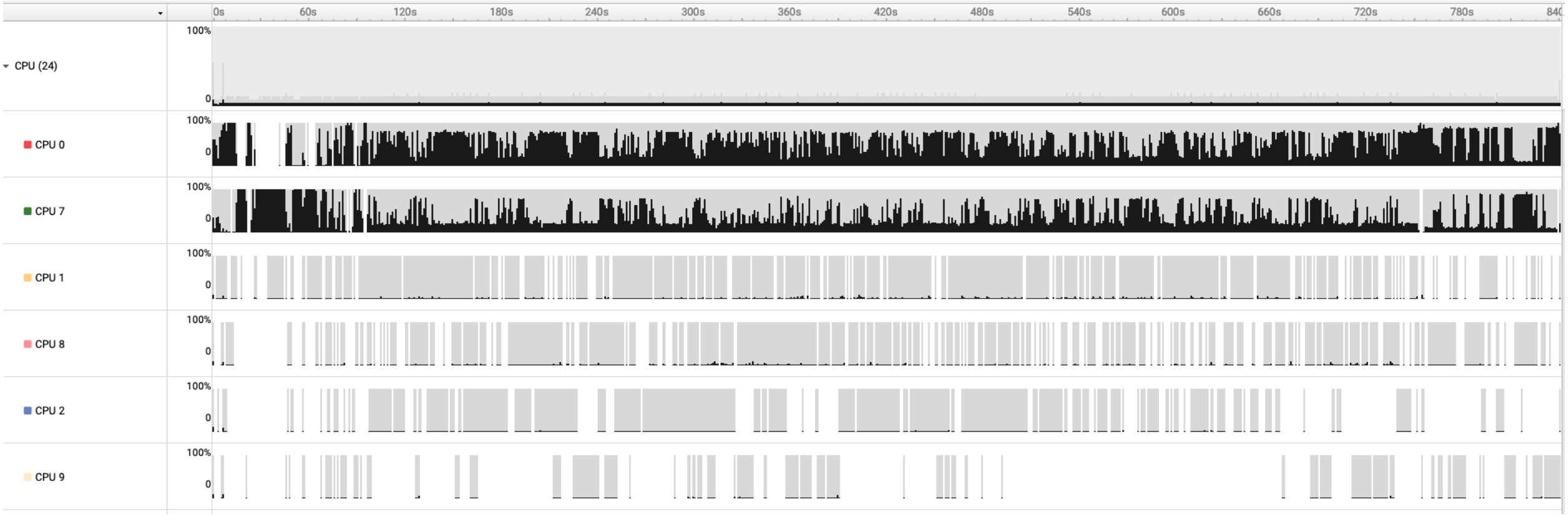
Row#	In-Use (%)	Duration (ns)	Start (ns)	PID	Device ID	Context ID
1	3.0	81,995,153,199	19,625,303,079	1,487,081	0	1
2	23.6	109,326,870,931	730,249,964,137	1,487,081	0	1

Local GUI (nsys-ui)

Analyzing Results - Timeline View

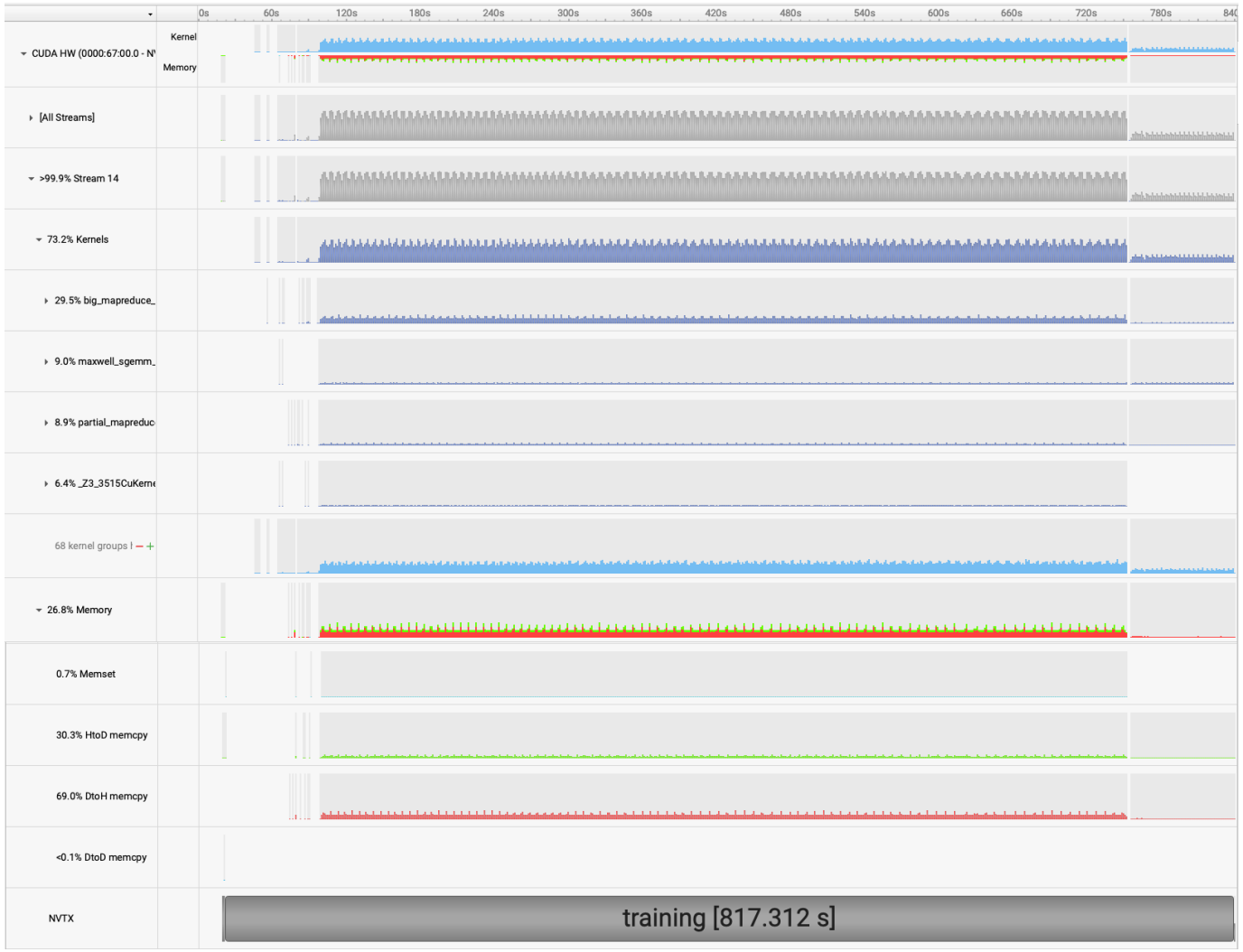
Local GUI (nsys-ui)

Analyzing Results - Timeline View (CPU)



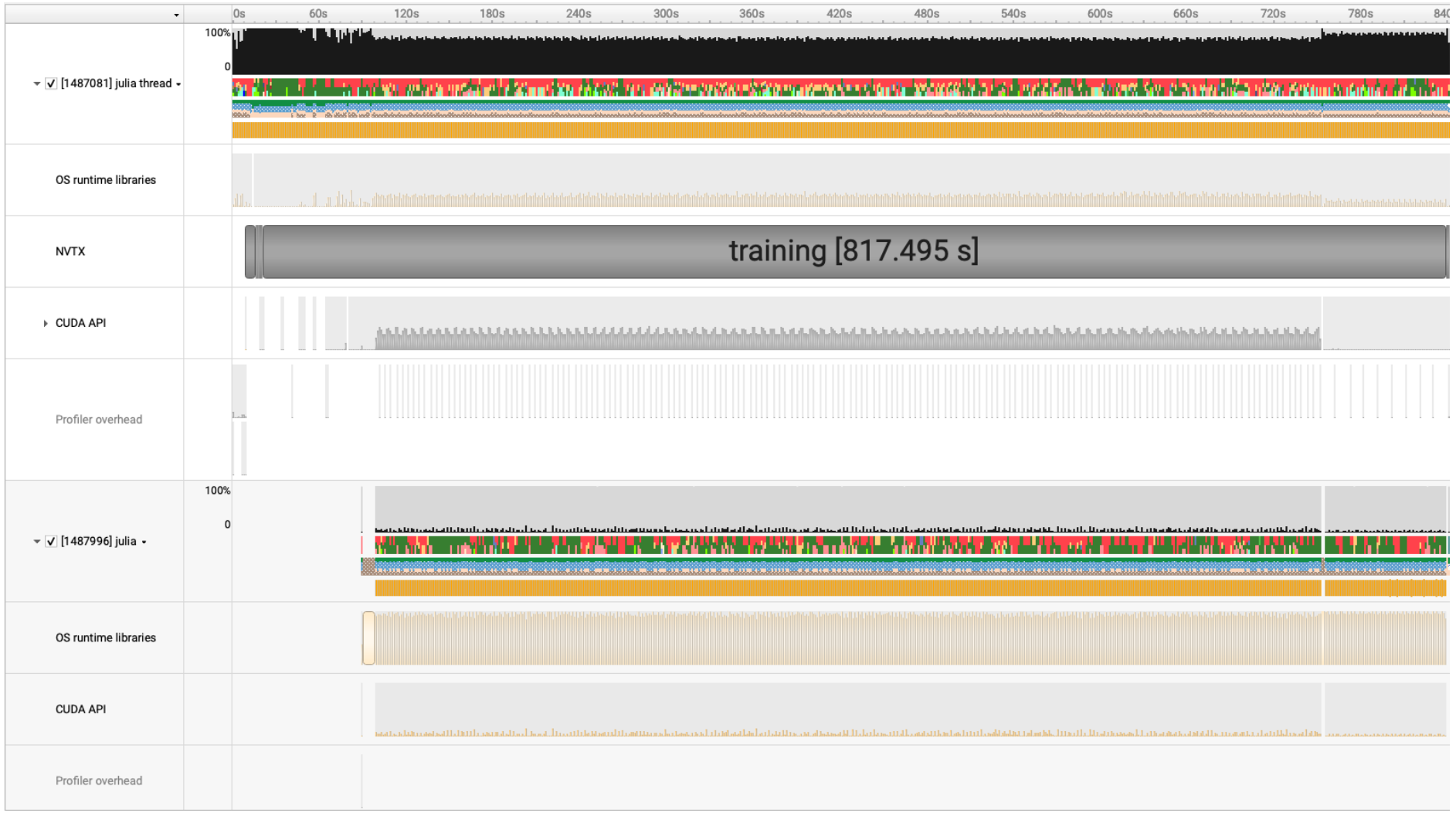
Local GUI (nsys-ui)

Analyzing Results - Timeline View (?)



Local GUI (nsys-ui)

Analyzing Results - Timeline View (?)



Local GUI (nsys-ui)

Analyzing Results - Analysis Summary

kraken.iric.ca (0:0)

Target

Hostname	kraken.iric.ca
Local time at t=0	2025-11-12T16:43:41.173-05:00
UTC time at t=0	2025-11-12T21:43:41.173Z
TSC value at t=0	2457627744732340
Platform	Linux
OS	Rocky Linux 8.10 (Green Obsidian)
Hardware platform	x86_64
Serial number	Local (CLI)
CPU description	Intel(R) Core(TM) i9-7920X CPU @ 2.90GHz
GPU descriptions	NVIDIA GeForce GTX 1080 Ti NVIDIA GeForce GTX 1080 Ti
NVIDIA driver version	575.51.03
Max EMC frequency	1.60 GHz
CPU context switch	supported
GPU context switch	supported
Guest VM id	0
Tunnel traffic through SSH	no
Timestamp counter	supported
Linux paranoid level	2
Profiling session UUID	41bd848c-ca3c-42a3-806a-c53d7c1417a5
Target name	kraken.iric.ca

Process summary

Process ID	Name	Arguments	CPU utilization
1487081	julia	rank_tf.jl	99.37%
1487190	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/bin/julia	-C native -g1 --compile=min -t1 --startup-file=no -e using Libdl driver, deps... = ARGS for dep in deps Libdl.dlopen(dep; throw_error=false) === nothing && exit(-1) end library_handle = Libdl.dlopen(driver; throw_error=false) library_handle === nothing && exit(-1) function_handle = Libdl.dlsym(library_handle, "cuInit") status = ccall(function_handle, Cint, (UInt32,), 0) status == 0 || exit(-2) exit(0)	0.17%

Module summary

Process ID	Module name	Address	CPU time (overall)	CPU time (per process)
1487081	/usr/lib64/**libcuda.so.575.51.03**	0x7f9c7c23c000– 0x7f9c7d0d3000	41.17%	41.38%
1487081	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/**libjul**	0x7f9d60fb0000– 0x7f9d611a7000	35.94%	36.13%
1487081	**//anon** File not found or is not a valid ELF file.	0x7f9d639ab000– 0x7f9d639ac000	8.44%	8.48%
1487081	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/**libLL**	0x7f9d5b75b000– 0x7f9d5eaf4000	6.16%	6.19%

Thread summary

Information about 365 threads (that have been active at least once) has been captured during the profiling session.
Information about idle threads is not represented here.

Process ID	Thread ID	Name	CPU utilization
1487081	1487081	julia thread 1	79.80%
1487081	1487996	julia	4.50%
1487081	1487997	julia	4.36%
1487081	1487952	julia	4.35%
1487081	1487995	julia	4.27%
1487081	1487094	[NSys]	1.56%
1487081	1487226	CUPTI worker thread	0.35%

Information about 358 threads with CPU utilization below 0.10% has been hidden.

Local GUI (nsys-ui)

Analyzing Results - Diagnostics Summary

Messages

	Source	Process ID	Time	Description
⚠	Daemon		-00:00.004	Unable to collect CPU kernel IP/backtrace samples. perf event paranoid level is 2. Change the paranoid level to 1 to enable CPU kernel sample collection. Try sudo sh -c 'echo 1 >/proc/sys/kernel/perf_event_paranoid' to change the paranoid level to 1.
ℹ	Daemon		-00:00.004	Intel(c) Last Branch Record (LBR) backtraces collected.
ℹ	Daemon		-00:00.004	Event 'Reference Cycles', with sampling period 2200000, used to trigger process-tree CPU IP sample collection.
ℹ	Daemon		-00:00.000	1 CPU IP samples collected for every CPU IP backtrace collected.
ℹ	Analysis		00:00.000	Profiling has started.
ℹ	Daemon	1487081	00:00.000	Process was launched by the profiler, see /tmp/nvidia/nsight_systems/quadd_session_101487063/streams/pid_1487081_stdout.log and stderr.log for program output
ℹ	Injection	1487081	00:00.030	Common injection library initialized successfully.
ℹ	Injection	1487081	00:00.049	OS runtime libraries injection initialized successfully.
ℹ	Injection	1487081	00:00.056	OpenGL injection initialized successfully.
ℹ	Injection	1487190	00:06.069	Common injection library initialized successfully.
ℹ	Injection	1487190	00:06.088	OS runtime libraries injection initialized successfully.
ℹ	Injection	1487190	00:06.095	OpenGL injection initialized successfully.
ℹ	Injection	1487190	00:06.397	Buffers holding CUDA trace data will be flushed on CudaProfilerStop() call. See --flush-on-cudaprofilerstop to control this behavior.
⊗	Injection	1487190	00:06.419	ActivityFlushPeriod returned 15: CUPTI_ERROR_NOT_INITIALIZED
ℹ	Injection	1487190	00:06.420	Loaded CUPTI library: /opt/nvidia/nsight-systems/2024.5.1/target-linux-x64/libcupti.so.12.6
⊗	Injection	1487190	00:06.473	Subscribe returned 15: CUPTI_ERROR_NOT_INITIALIZED
⊗	Injection	1487190	00:06.473	CUDA injection initialization failed.
ℹ	Injection	1487081	00:06.695	NVTX injection initialized successfully.
ℹ	Injection	1487081	00:07.462	Buffers holding CUDA trace data will be flushed on CudaProfilerStop() call. See --flush-on-cudaprofilerstop to control this behavior.
ℹ	Injection	1487081	00:07.476	Loaded CUPTI library: /opt/nvidia/nsight-systems/2024.5.1/target-linux-x64/libcupti.so.12.6
⚠	Injection	1487081	00:07.476	Installed CUDA driver version (12.9) is not supported by this build of Nsight Systems. CUDA trace will be collected using libraries for driver version 12.6
ℹ	Injection	1487081	00:07.527	Enabling trace for device graph launch
ℹ	Injection	1487081	00:07.533	CUDA injection initialized successfully.

Local GUI (nsys-ui)

Analyzing Results - ?

Bottom-Up View | Native | Process [1487081] julia (99.4%, 25 of 25 threads)

Filter... 1,065,422 samples are used.

Symbol Name	Self, %	Module Name
gc_mark_obj8	13.04	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/libjulia-internal.so.1.11.7
0x7f9c7c2ed184	7.53	/usr/lib64/libcuda.so.575.51.03
gc_mark_loop_serial_	5.44	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/libjulia-internal.so.1.11.7
gc_mark_objarray	5.22	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/libjulia-internal.so.1.11.7
0x7f9c7c533f4e	5.21	/usr/lib64/libcuda.so.575.51.03
0x7f9c7c2f7651	4.72	/usr/lib64/libcuda.so.575.51.03
gc_sweep_page	4.28	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/libjulia-internal.so.1.11.7
gc_sweep_sysimg	1.58	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/libjulia-internal.so.1.11.7
0x7ffe12557b34	1.06	[vdso]
0x7f9c7c533ee0	1.03	/usr/lib64/libcuda.so.575.51.03

Bottom-Up View | Native | Process [1487190] julia (0.2%, 19 of 19 threads)

Filter... 1,742 samples are used.

Symbol Name	Self, %	Module Name
blas_thread_server	76.23	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/libopenblas64_.0.3.27.so
0x7fd266103ccb	76.23	/opt/nvidia/nsight-systems/2024.5.1/target-linux-x64/libToolsInjection64.so
__strcmp_avx2_rtm	12.23	/usr/lib64/libc-2.28.so
jl_read_reloclist	1.49	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/libjulia-internal.so.1.11.7
__memset_evex_unaligned_erms	1.44	/usr/lib64/libc-2.28.so
0x7fd265f5f149	0.80	/opt/nvidia/nsight-systems/2024.5.1/target-linux-x64/libToolsInjection64.so
crc32c_sse42	0.75	/u/chans/.julia/juliaup/julia-1.11.7+0.x64.linux.gnu/lib/julia/libjulia-internal.so.1.11.7
0x7fd265f5f130	0.75	/opt/nvidia/nsight-systems/2024.5.1/target-linux-x64/libToolsInjection64.so

Demo :D