

```
In [ ]: from hta.trace_analysis import TraceAnalysis
        analyzer = TraceAnalysis(trace_dir = "/home/tilak/Alinet_optim/inference-opt
```

```
2024-01-26 17:58:32,716 - hta - trace.py:L389 - INFO - /home/vrushank/Documents/GitHub/Deep-Learning-Projects/diffusion-policy-inference/log/diffusion/
2024-01-26 17:58:32,717 - hta - trace_file.py:L94 - INFO - Rank to trace file map:
{0: '/home/vrushank/Documents/GitHub/Deep-Learning-Projects/diffusion-policy-inference/log/diffusion/vrushank_177412.1706309520293846892.pt.trace.json'}
2024-01-26 17:58:32,717 - hta - trace.py:L535 - INFO - ranks=[0]
2024-01-26 17:58:32,721 - hta - trace.py:L118 - INFO - Parsed /home/vrushank/Documents/GitHub/Deep-Learning-Projects/diffusion-policy-inference/log/diffusion/vrushank_177412.1706309520293846892.pt.trace.json time = 0.00 seconds
2024-01-26 17:58:32,744 - hta - trace.py:L671 - WARNING - ProfilerStep not found in the trace. The analysis result may not be accurate.
```

```
In [8]: temporal_breakdown_df = analyzer.get_temporal_breakdown()
```

```
/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/utils/Utils.py:108: FutureWarning:
```

The provided callable <built-in function min> is currently using SeriesGroupBy.min. In a future version of pandas, the provided callable will be used directly. To keep current behavior pass the string "min" instead.

```
/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/utils/Utils.py:108: FutureWarning:
```

The provided callable <built-in function max> is currently using SeriesGroupBy.max. In a future version of pandas, the provided callable will be used directly. To keep current behavior pass the string "max" instead.

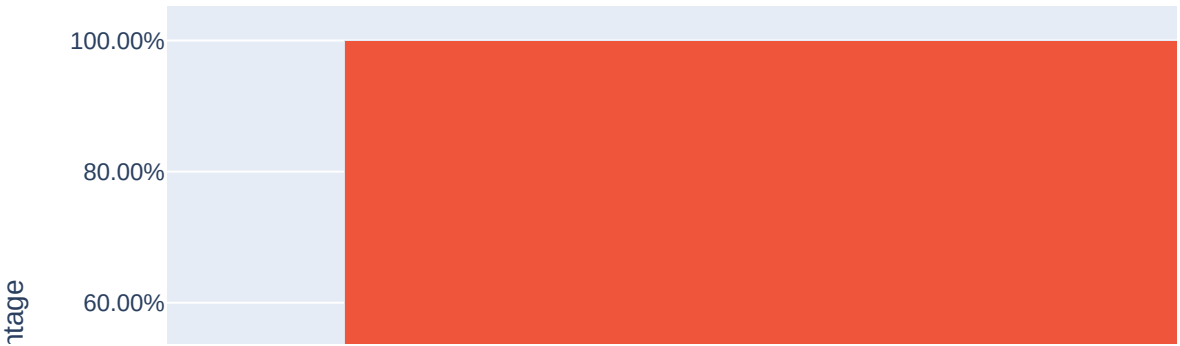
```
/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/utils/Utils.py:108: FutureWarning:
```

The provided callable <built-in function min> is currently using SeriesGroupBy.min. In a future version of pandas, the provided callable will be used directly. To keep current behavior pass the string "min" instead.

```
/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/utils/Utils.py:108: FutureWarning:
```

The provided callable <built-in function max> is currently using SeriesGroupBy.max. In a future version of pandas, the provided callable will be used directly. To keep current behavior pass the string "max" instead.

Temporal breakdown across ranks



```
In [5]: kernel_breakdown_df = analyzer.get_gpu_kernel_breakdown()
```

```
/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/ut  
ls/utls.py:108: FutureWarning:
```

The provided callable <built-in function min> is currently using SeriesGroup By.min. In a future version of pandas, the provided callable will be used directly. To keep current behavior pass the string "min" instead.

```
/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/ut  
ls/utls.py:108: FutureWarning:
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/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/ut  
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```

The provided callable <built-in function max> is currently using SeriesGroup By.max. In a future version of pandas, the provided callable will be used directly. To keep current behavior pass the string "max" instead.

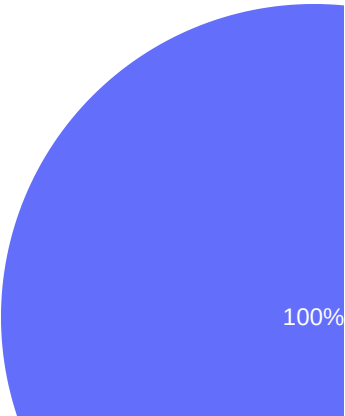
```
/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/ut  
ls/utls.py:108: FutureWarning:
```

The provided callable <built-in function min> is currently using SeriesGroup By.min. In a future version of pandas, the provided callable will be used directly. To keep current behavior pass the string "min" instead.

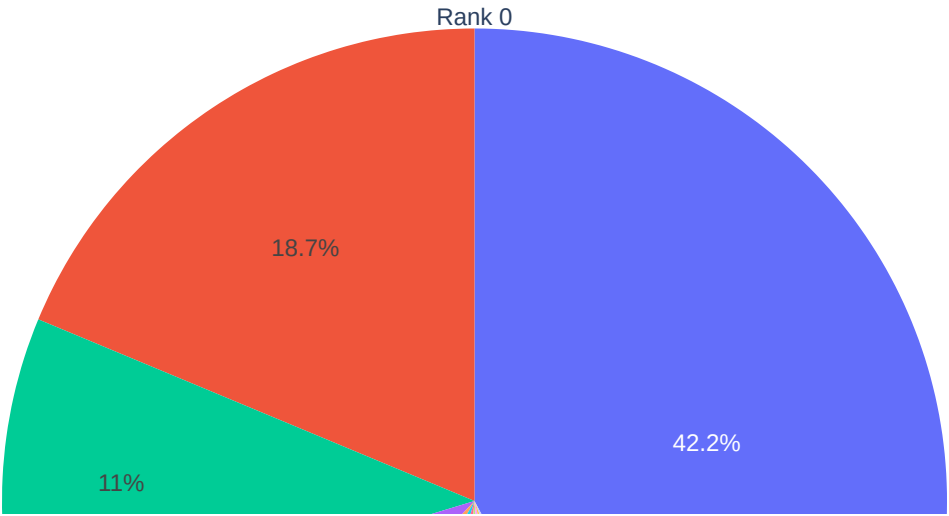
```
/home/vrushank/anaconda3/envs/diffusion/lib/python3.11/site-packages/hta/ut  
ls/utls.py:108: FutureWarning:
```

The provided callable <built-in function max> is currently using SeriesGroup By.max. In a future version of pandas, the provided callable will be used directly. To keep current behavior pass the string "max" instead.

Kernel Type Percentage Across All Ranks



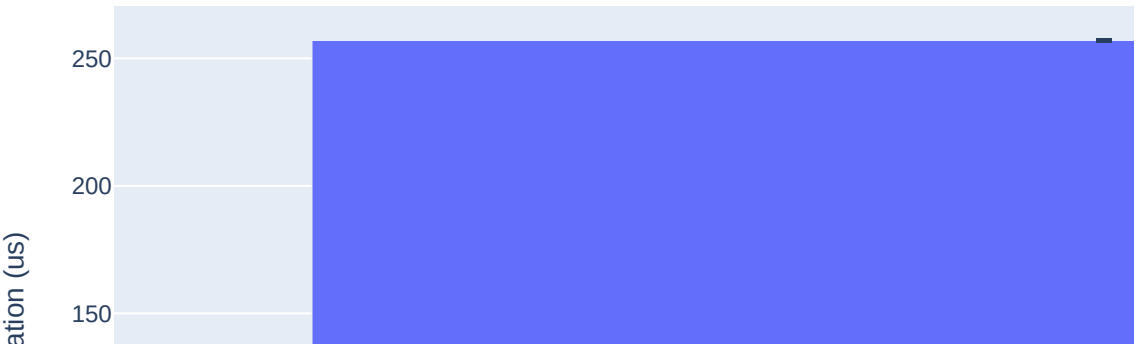
Kernel type "COMPUTATION" - kernel distribution on each rank



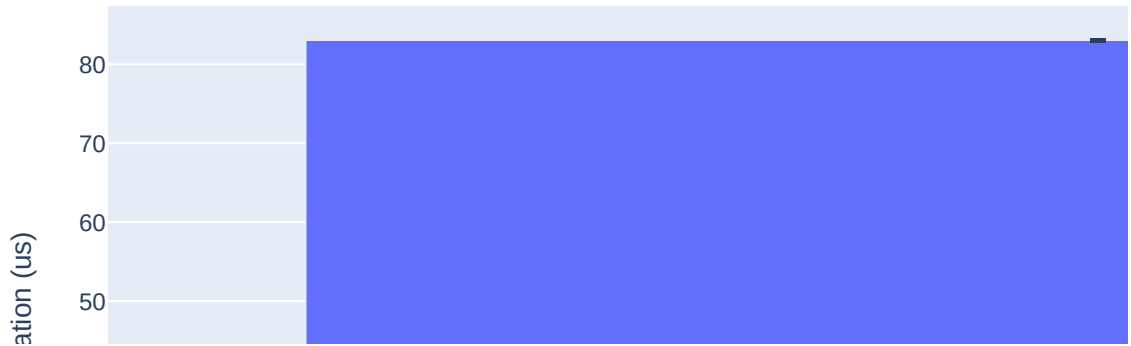
Kernel type "COMPUTATION" - sm86\_xmma\_fprop\_implicit\_gemm\_inc



Kernel type "COMPUTATION" - sm86\_xmma\_fprop\_implicit\_gemm\_tf3



Kernel type "COMPUTATION" - std::enable\_if<!(false), void>::type inter





Kernel type "COMPUTATION" - std::enable\_if<!(false), void>::type inter



Kernel type "COMPUTATION" - void at::native::(anonymous namespace



Kernel type "COMPUTATION" - void at::native::(anonymous namespace)



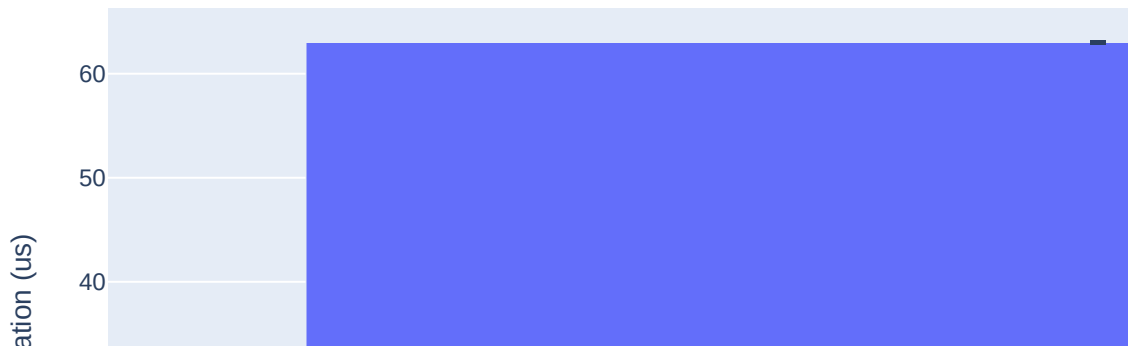
Kernel type "COMPUTATION" - void at::native::elementwise\_kernel<12



Kernel type "COMPUTATION" - void at::native::elementwise\_kernel<12



Kernel type "COMPUTATION" - void at::native::vectorized\_elementwise



Kernel type "COMPUTATION" - void cudnn::ops::nchwToNhwckKernel<f

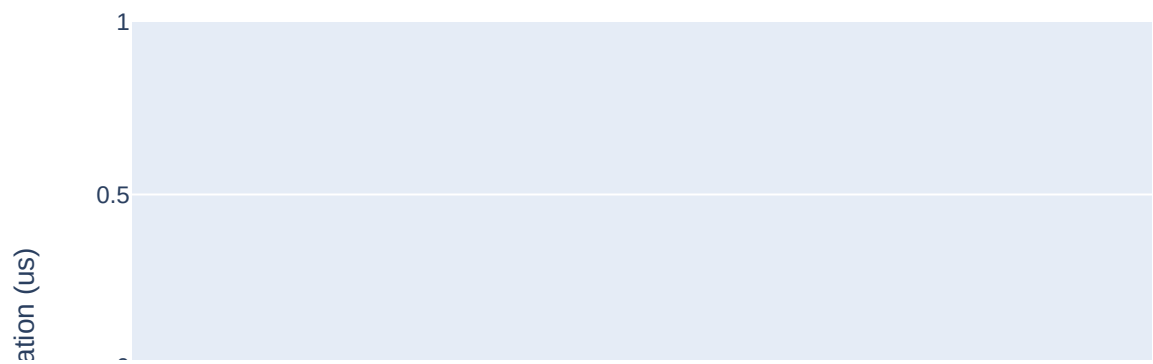


Kernel type "COMMUNICATION" - kernel distribution on each rank



Kernel type "MEMORY" - kernel distribution on each rank

Kernel type "MEMORY" - Memset (Device)



```
In [12]: ql_series = analyzer.get_queue_length_time_series()
```

2024-01-26 18:17:00,873 - hta - trace\_counters.py:L129 - INFO - Please note that the time series only contains points when the value changes. Once a value is observed the time series stays constant until the next update.

```
In [ ]:
```