

# Comparing SYCL vs CUDA on v100S

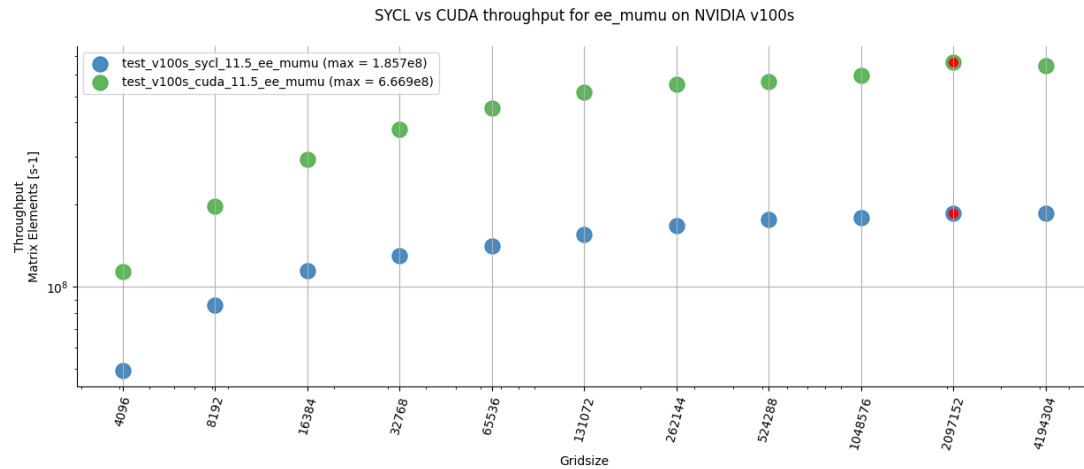
Jorgen Teig

05.09.2022

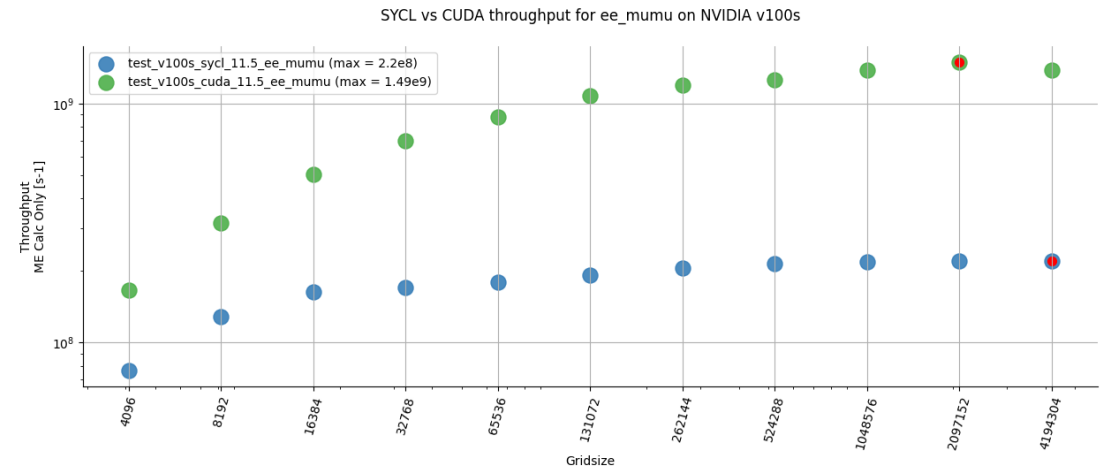
# Notes

- **This is comparing SYCL and CUDA in the MASTER branch (Last minute find)**
- **Automated the process**
- **Most time consuming is letting the scripts run on the GPUs**

# SYCL vs CUDA on v100s (GCC 10.3 and CUDA 11.5) ee\_mumu

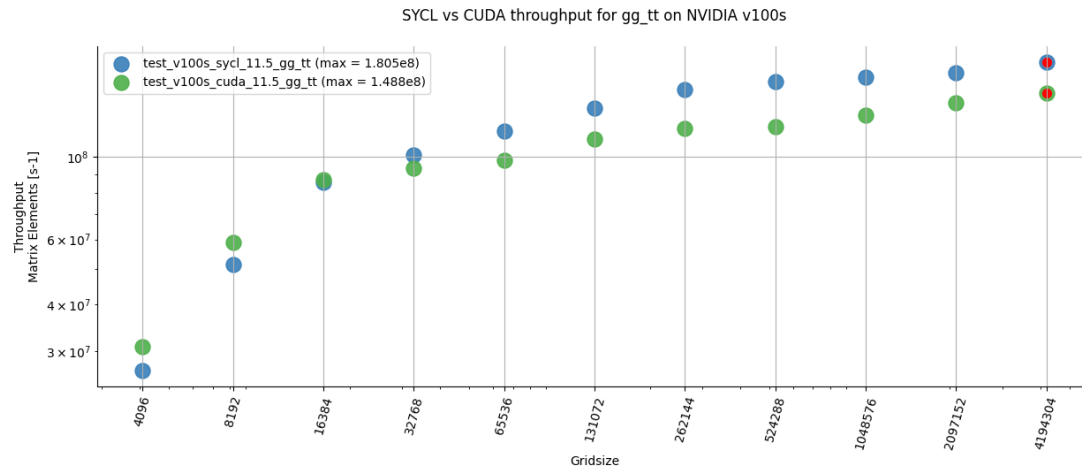


Matrix Elements

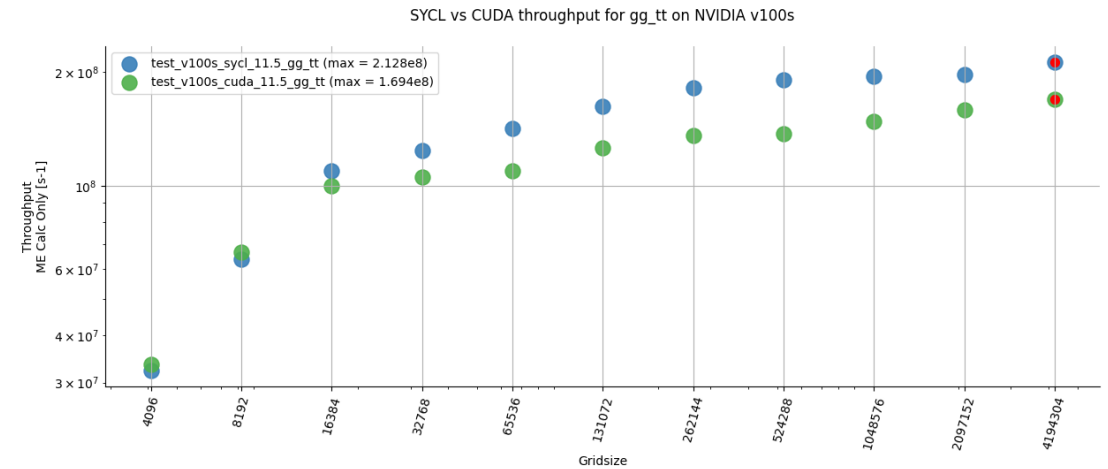


ME Calc Only

# SYCL vs CUDA on v100s (GCC 10.3 and CUDA 11.5) gg\_tt



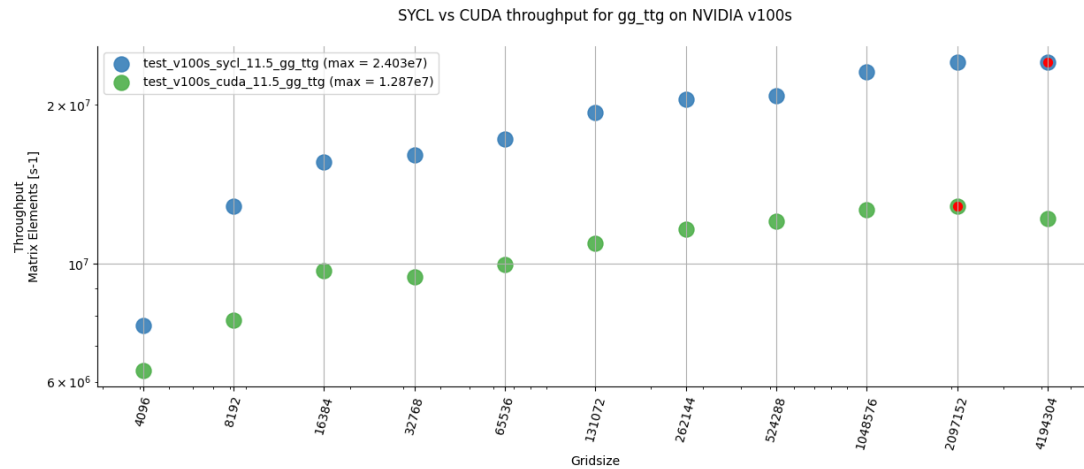
Matrix Elements



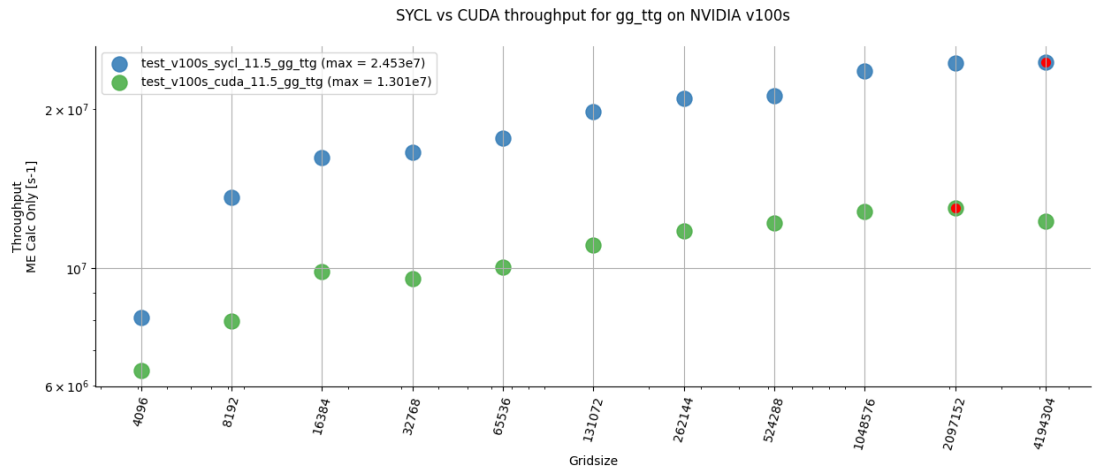
ME Calc Only

# SYCL vs CUDA on v100s (GCC 10.3 and CUDA 11.5)

## gg\_ttg

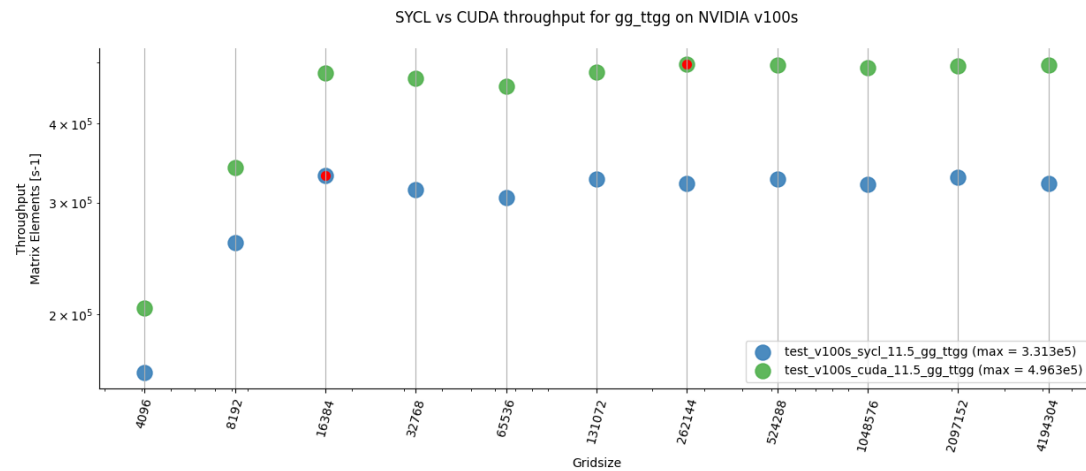


Matrix Elements

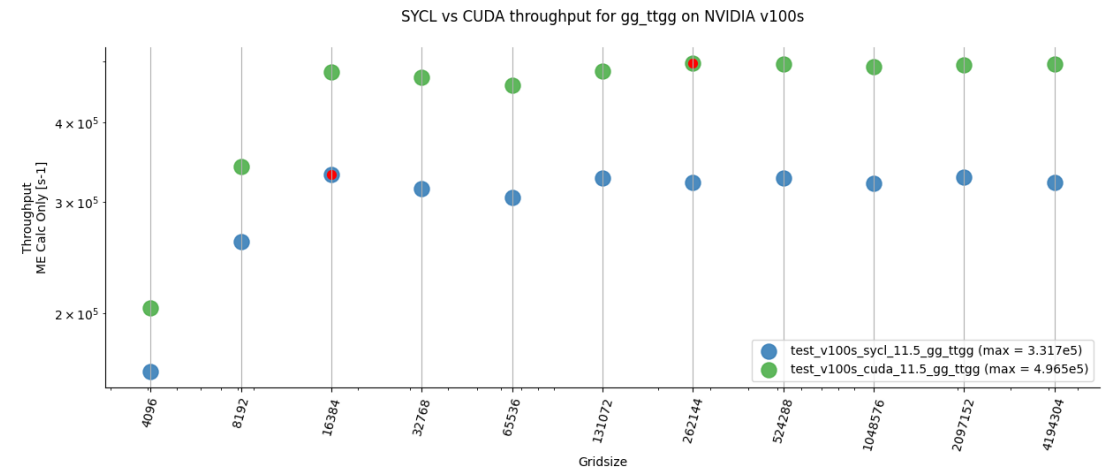


ME Calc Only

# SYCL vs CUDA on v100s (GCC 10.3 and CUDA 11.5) gg\_ttgg



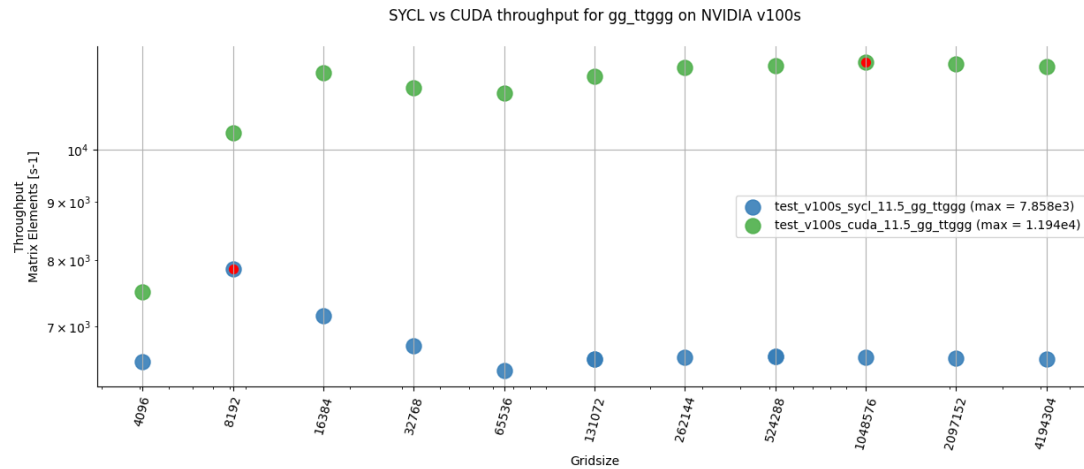
Matrix Elements



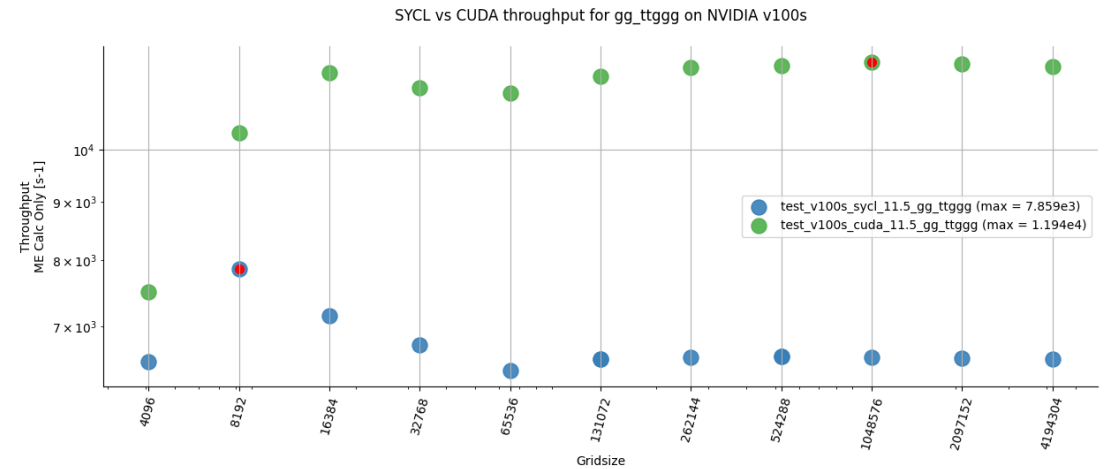
ME Calc Only

# SYCL vs CUDA on v100s (GCC 10.3 and CUDA 11.5)

## gg\_ttggg



Matrix Elements



ME Calc Only



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