GPU Comparison Report: NVIDIA GeForce RTX 3070

Summary of results

The table and chart below show the peak performance of various GPUs using the same version of MATLAB. Your results (if any) are highlighted in bold in the table and on the chart. All other results are from pre-stored data. The peak performance shown is usually achieved when dealing with extremely large arrays. Typical performance in day-to-day use will usually be much lower.
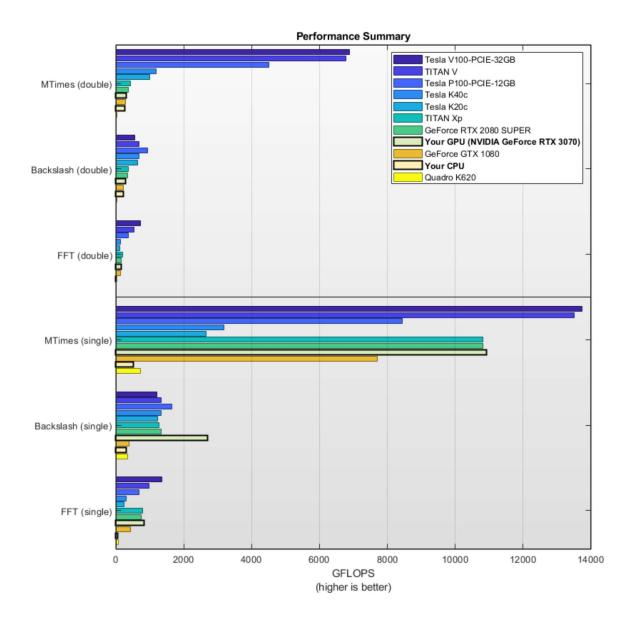
Results captured using the CPUs on the host PC (i.e., without using a GPU) are included for comparison.

Results are shown for calculations in both single and double precision. For all results, higher is better.

Shareable data files: C:\Users\pedro\AppData\Local\Temp\GPUBenchReport\NVIDIA_GeForce_RTX_3070.gpubench.json

	Double precision results (in GFLOPS)			Single precision results (in GFLOPS)		
	MTimes	Backslash	FFT	MTimes	Backslash	FFT
Tesla V100-PCIE-32GB	6884.95	563.73	728.71	13727.99	1210.42	1365.11
TITAN V	6779.73	674.40	534.65	13515.42	1336.39	985.36
Tesla P100-PCIE-12GB	4510.03	929.00	357.65	8435.34	1647.83	687.13
Tesla K40c	1189.54	677.12	135.88	3187.76	1334.17	294.86
Tesla K20c	1004.06	641.42	106.09	2657.01	1230.28	235.20
TITAN Xp	421.00	369.32	209.45	10823.05	1272.06	797.17
GeForce RTX 2080 SUPER	373.37	345.32	164.30	10813.12	1330.64	746.20
Your GPU (NVIDIA GeForce RTX 3070)	**307.48**	**278.53**	**160.72**	**10916.68**	**2708.61**	**832.98**
GeForce GTX 1080	280.84	223.05	137.66	7707.01	399.37	424.60
Your CPU	**256.47**	**212.87**	**20.47**	**521.55**	**300.78**	**46.28**
Quadro K620	25.45	22.77	12.75	716.71	350.31	75.00

(Sort the results by clicking on any column title. To see detailed performance data, click on an individual result or a device name.)

Performance Summary

Legend:
- Tesla V100-PCIE-32GB
- TITAN V
- Tesla P100-PCIE-12GB
- Tesla K40c
- Tesla K20c
- TITAN Xp
- GeForce RTX 2080 SUPER
- **Your GPU (NVIDIA GeForce RTX 3070)**
- GeForce GTX 1080
- **Your CPU**
- Quadro K620

GFLOPS
(higher is better)

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