Benchmark Summary
AMD Internal Use Only

achapman

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1   a100_output_dir_gemm Specifications

Card0 Info

Bus:	0000:0C:00.0
Driver Version:	None
Profile:	7
Start Fan Speed:	21.96%
Start GTT Memory:	114.0MB / 62.8GB
Start VIS_VRAM Memory:	47.2MB / 256.0MB
Start VRAM Memory:	685.8MB / 16.0GB
Start dcefclk:	357Mhz - Level 0/7
Start fclk:	357Mhz - Level 0/7
Start mclk:	1000Mhz - Level 2/2
Start pcie:	2.5GT/s x8 - Level 0 (2.5GT/s x8/N/A
Start sclk:	808Mhz - Level 1/8
Start socclk:	971Mhz - Level 7/7

Card1 Info

Bus:	0000:0F:00.0
Driver Version:	None
Profile:	7
Start Fan Speed:	20.0%
Start GTT Memory:	24.9MB / 62.8GB
Start VIS_VRAM Memory:	10.3MB / 256.0MB
Start VRAM Memory:	10.3MB / 16.0GB
Start dcefclk:	357Mhz - Level 0/7
Start fclk:	357Mhz - Level 0/7
Start mclk:	350Mhz - Level 0/2
Start pcie:	2.5GT/s x8 - Level 0 (2.5GT/s x8/N/A
Start sclk:	808Mhz - Level 1/8
Start socclk:	309Mhz - Level 0/7

Device 0 Info

device:	Vega 20 [Radeon VII]Vega 20 [Radeon VII] 0x66af
memory clock:	1000Mhz
performance level:	
system clock:	808Mhz
vbios version:	113-D3600200-106
vram:	VRAM Total Memory (B) 1716309196

Host Info

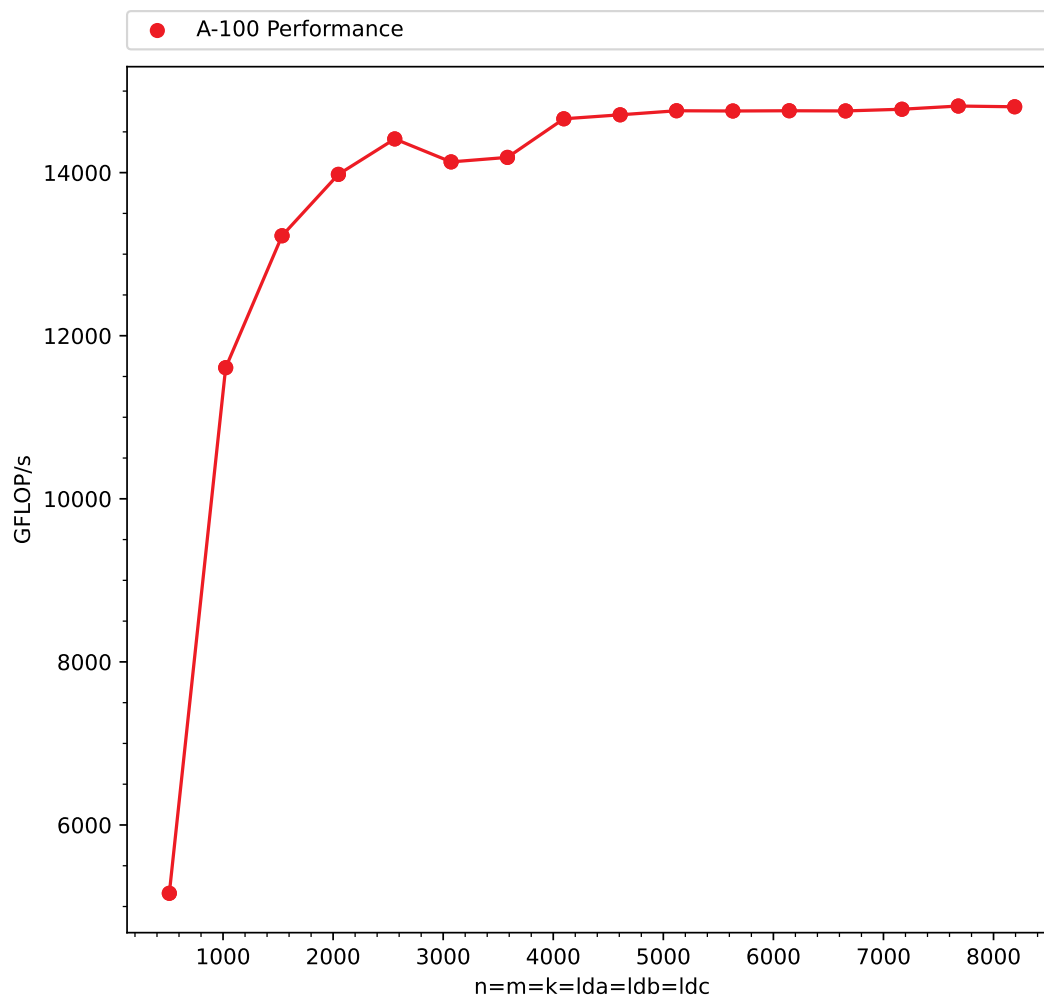|	
cpu info:	AMD Ryzen 9 3900X 12-Core Processor
distro:	Ubuntu 20.04.3 LTS
hostname:	achapman-X570
kernel version:	5.4.0-92-generic
ram:	64GiB
rocm version:	5.0.0.50000-49

Figure 1: sgemm Performance

For all runs, "--batch_count -1 -f gemm -r f32_r --incx 0 --incy 0 --alpha 1 --beta 1 -i 1 --transposeA N --transposeB T --device 0" is held constant.
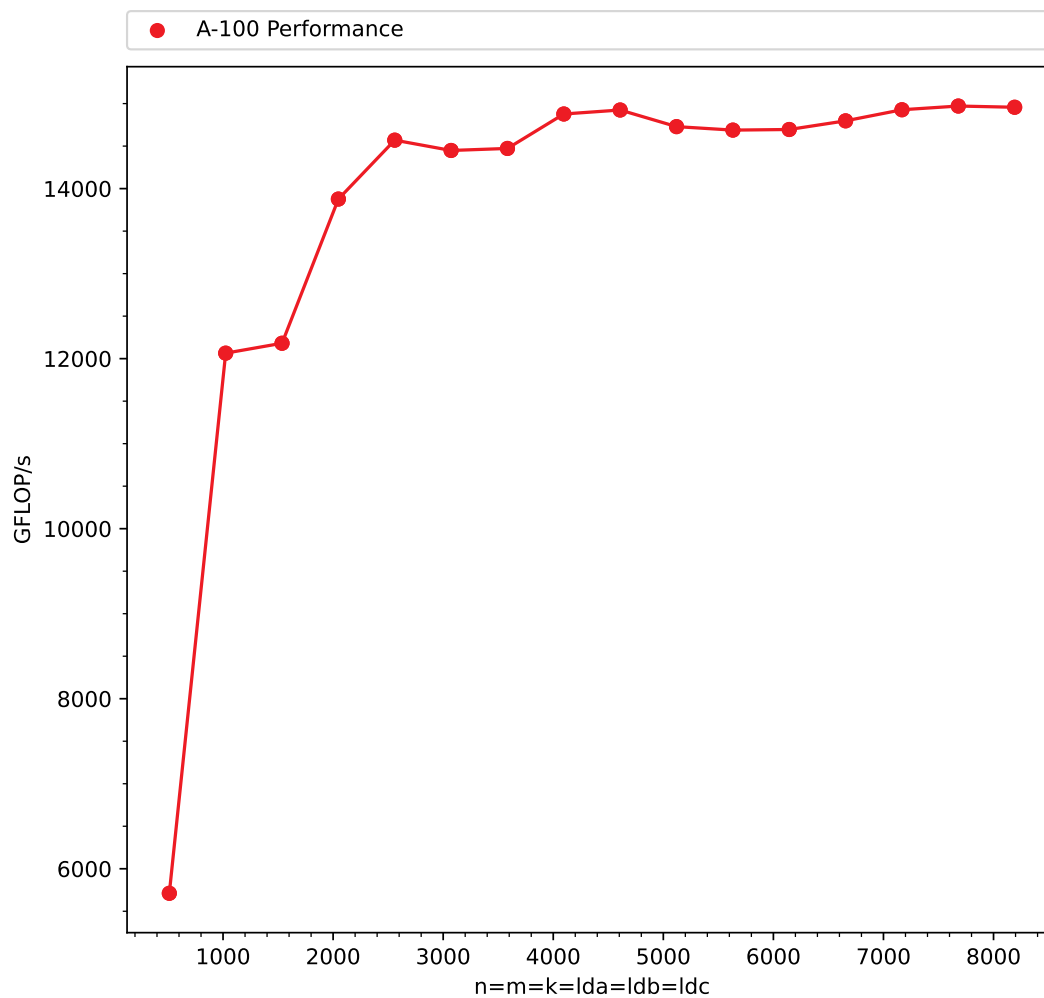
Figure 2: dgemm Performance

For all runs, "--batch_count -1 -f gemm -r f64_r --incx 0 --incy 0 --alpha 1 --beta 1 -i 1 --transposeA N --transposeB T --device 0" is held constant.