

Consider the architecture of the NVIDIA 4000
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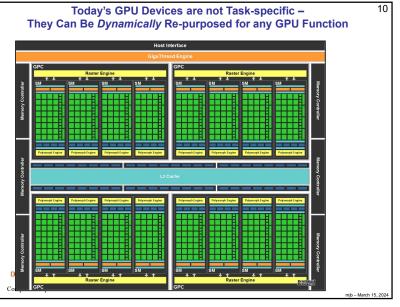
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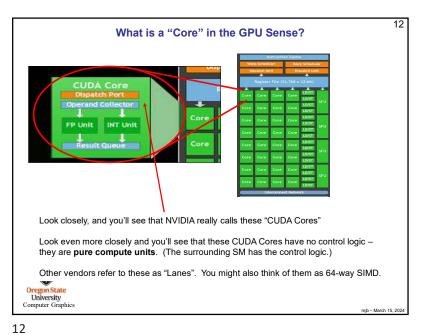
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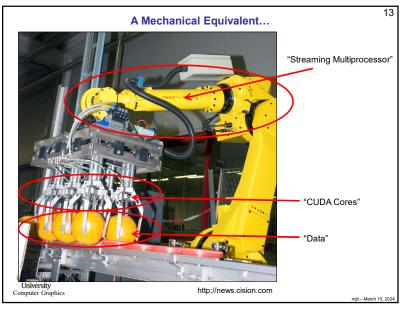
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RTX 4070 Ti	AD104	TSMC 4N	35.8	294.5	60	7680	240	60	2610	21	12	192	48	80	240	40.1	321 (641)	504	285	Jan 2023	6700
RTX 4080	AD103	TSMC 4N	45.9	378.6	76	9728	304	76	2505	22.4	16	256	64	112	304	48.7	390 (780)	717	320	Nov 2022	61 100
RTX 4070	AD104	TSMC 4N	32	294.5	46	5888	184	46	2475	21	12	192	36	64	184	29.1	233 (466)	504	200	Apr 2023	-100
Graphics Card	Architecture	Process Technology	Transistors (Billion)	Die size (mm^2)	SMs	GPU Cores (Shaders)	Tensor Cores	Ray Tracing "Cores"	Boost Clock (MHz)	VRAM Speed (Gbps)	VRAM (GB)	VRAM Bus Width	L2 Cache (MiB)	ROPs	TMUs	TFLOPS FP32 (Boost)	TFLOPS FP16 (FP8)	Bandwidth (GBps)	TGP (watts)	Launch Date	and the second sec

4000 Series	of CUDA Cores	Power Supply **	Memory Type	Memory Interface Width	Memory Bandwidth GB/sec	Base Clock Speed	Boost Clock Speed	NOTES
RTX-4080	9728	750 watt	GDDR6X	256 bit	716.8 GB/s	2.21 GHz	2.51 GHz	16 GB of Memory
RTX-4090	16384	850 watt	GDDR6X	384 bit	1008 GB/s	2.23 GHz	2.52 GHz	24 GB of Memory>
NVIDIA Card	Number	Size of	Memory	Memory	Memory	Base	Boost Clock	NOTES
3000 Series	of CUDA Cores	Power Supply **	Туре	Interface Width	Bandwidth GB/sec	Clock Speed	Speed	
RTX-3050	2560	550 watt	GDDR6	128 bit	224 GB/s	1550 MHz	1780 MHz	Standard with 8 GB of Memory
RTX-3060	3584	550 watt	GDDR6	192 bit	384 GB/s	1320 MHz	1780 MHz	Standard with 12 GB of Memory
RTX-3060 Ti	4864	600 watt	GDDR6	256 bit	448 GB/s	1410 MHz	1670 MHz	Standard with 8 GB of Memory
RTX-3070	5888	650 watt	GDDR6	256 bit	448 GB/s	1580 MHz	1770 MHz	Standard with 8 GB of Memory
RTX-3070 Ti	6144	750 watt	GDDR6X	256 bit	608 GB/s	1500 MHz	1730 MHz	Standard with 8 GB of Memory
RTX-3080	8704	750 watt	GDDR6X	320 bit	760 GB/s	1440 MHz	1710 MHz	Standard with 10 GB of Memory
RTX-3080 Ti	10240	750 watt	GDDR6X	384 bit	912 GB/s	1370 MHz	1670 MHz	Standard with 12 GB of Memory
RTX-3090	10496	750 watt	GDDR6X	384 bit	936 GB/s	1400 MHz	1700 MHz	Standard with 24 GB of Memory
RTX-3090 Ti	10572	850 watt	GDDR6X	384 bit	936 GB/s	1670 MHz	1860 MHz	Standard with 24 GB of Memory
NVIDIA Card	Number	Size of	Memory	Memory	Memory	Base	Boost Clock	NOTES
2000 Series	of CUDA Cores	Power Supply **	Туре	Interface Width	Bandwidth GB/sec	Clock Speed	Speed	
RTX-2060	1920	500 watt	GDDR6	192 bit	336 GB/s	1365 MHz	1680 MHz	Standard with 6 GB of Memory
TX-2060 Super	2176	550 watt	GDDR6	256 bit	448 GB/s	1470 MHz	1650 MHz	Standard with 8 GB of Memory
RTX-2070	2304	550 watt	GDDR6	256 bit	448 GB/s	1410 MHz	1620 MHz	Standard with 8 GB of Memory
TX-2070 Super	2560	650 watt	GDDR6	256 bit	448 GB/s	1605 MHz	1770 MHz	Standard with 8 GB of Memory
RTX-2080	2944	650 watt	GDDR6	256 bit	448 GB/s	1515 MHz	1710 MHz	Standard with 8 GB of Memory
TX-2080 Super	3072	650 watt	GDDR6	256 bit	496 GB/s	1650 MHz	1815 MHz	Standard with 8 GB of Memory
RTX-2080 Ti	4352	650 watt	GDDR6	352 bit	616 GB/s	1350 MHz	1545 MHz	Standard with 11 GB of Memory
Titan RTX	4608	650 watt	GDDR6	384 bit	672 GB/s	1350 MHz	1770 MHz	Standard with 24 GB of Memory
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