Node Types in Compute Canada

Node types on Cedar - Compute

Number of Nodes	% of total	Memory per core (GiB)	Total Mem (GiB)	Cores	GPUS	Partition type
1408	73.64%	4	192	48		
576	20.08%	4	128	32		cpubase
128	4.46%	8	256	32		
24	0.84%	16	512	32		
24	0.84%	48	1536	32		cpularge
4	0.14%	96	3072	32		

Node types on Graham - Compute

Number of Nodes	% of total	Memory per core (GiB)	Total Mem (GiB)	Cores	GPUS	Partition type
884	85.35%	4	128	32		cpubase
72	9.36%	4.2	192	44		
56	5.79 %	8	256	32		
24	2.48 %	16	512	32		cpularge
3	0.31 %	96	3072	32		

Node types on Beluga - Compute

Number of Nodes	% of total	Memory per core (GiB)	Total Mem (GiB)	Cores	GPUS	Partition type
172	24.57%	2.4	96	40		cpubase
516	73.71%	4.8	192	40		
24	1.71%	19.2	768	40		cpularge

Node types on Niagara - Compute

Number of Nodes	% of total	Memory per core (GiB)	Total Mem (GiB)	Cores
2016	100%	4.7	188	40

GPUs

Cluster	GPU Type	GPU mem	% gpu cluster	Num nodes	Per Node			Default	Specify GPU
					Num GPU	CPU cores	System mem GiB		
Cedar	P100	12	34%	114	4	24 (6 per GPU)	128 (32 per GPU)	yes	gpu, p100
	P100	16	9%	32	4	24 (6 per GPU)	256 (64 per GPU)	no	lgpu, p100l
	V100	32	57%	192	4	32 (8 per GPU)	192 (48 per GPU)	no	v100l
Beluga	V100	16	100%	172	4	40 (10 per GPU)	192 (48 per GPU)	yes	gpu,v100
Graham	P100	12	62%	160	2	32 (16 per GPU)	128 (64 per GPU)	yes	gpu,p100
	T4	16	28%	36	4	24 (6 per GPU)	192 (48 per GPU)	no	t4
	V100	16	11%	7	4	28 (7 per GPU)	178 (44 per GPU)	no	v100
Helios	K20	5	55%	15	8	20 (2.5 per GPU)	110 (13 per GPU)	yes	k20
	K80	12	44%	6	16	24 (1.5 per GPU)	256 (16 per GPU)	no	k80
Arbutus	V100	32		9	4	80 (10 per GPU)	384 (96 per GPU)	N/A	N/A