Maxwell Update

very brief

Maxwell previous status

Maxwell hardware update

- 40 AMD EPYC 7402 → +3800 cores in short partition → maxwell (+150%)

- 6 1xV100 + 6 2xV100 new in maxgpu/allgpu (+42% GPUs, +50% V100)

- 1 4xV100 (mdlma, allgpu)

- 6 4xV100 (tbd, allgpu)

- Eu.XFEL +100 nodes soon → upex/exfel/all partitions

- DESY-IT investment in 2020 ~1M€ (w/o storage)

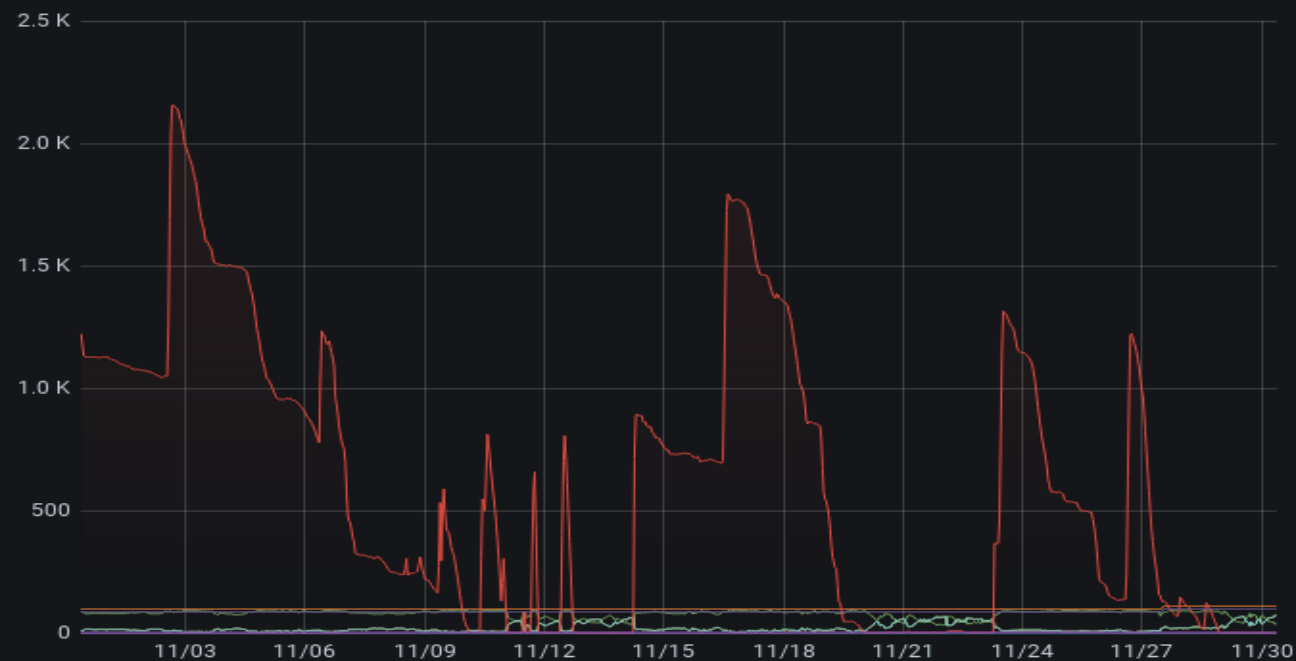- foreseen for 2021: CPUs, A100, possibly Intel Xe, … (open to suggestions)

Maxwell hardware update

https://confluence.desy.de/display/IS/Maxwell+Hardware

Partition	# nodes	# cores	Memory	GPUs
allgpu	109 (+6)	4760	49TB	136 (+24)
maxgpu	35 (+6)	1600	13TB	47 (+24)
all	438 (+100)	27104 (+9600)	242TB	-
maxwell	116 (+40)	2544 (+3840)	16TB	-

allgpu partition

	min	max	avg	current
— allocated	30	94	78	36
— available	2	72	19	71
— idle	2	72	19	71
— nodecount	97	109	98	109
— pending	0	2 K	594	0
— preemptable	0	0	0	0
— reserved	0	2	1	1
— x100count	85	97	86	97

MAXGPU partition
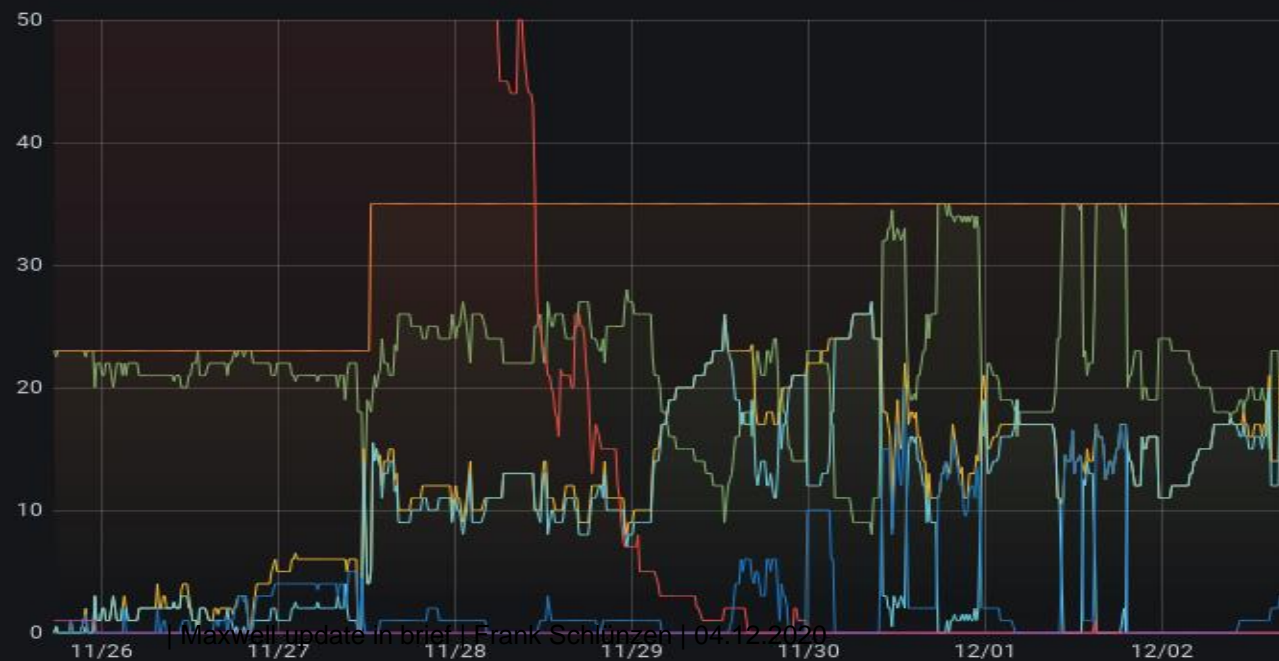
	min	max	avg	current
— allocated	8	35	22	16
— available	0	27	12	22
— idle	0	27	10	19
— nodecount	23	35	32	35
— pending	0	224	49	0
— preemptable	0	20	3	3
— reserved	0	1	0	0

Sta(t)us

Maxwell current status

Cite!