Table 1: Metric MAE for avg-transceivers

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
euro28	[2] 6.62 ± 0.75	10.61 ± 1.12	[1 2] 4.04 ± 0.34	[1 2] 3.90 ± 0.31
us26	[2] 17.15 ± 1.48	22.01 ± 1.33	[1 2] 7.25 ± 0.44	[1 2 3] 6.17 ± 0.26

Table 2: Metric MAE for max-transceivers

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
euro28	[2] 9.17 ± 0.85	13.68 ± 0.74	[1 2] 6.68 ± 0.37	[1 2] 6.52 ± 0.36
us26	[2] 21.21 ± 1.30	25.98 ± 1.44	[1 2] 11.74 ± 0.56	[1 2 3] 9.69 ± 0.34

Table 3: Metric MAE for sum-slots

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
euro28	[2] 204.46 ± 16.77	285.29 ± 24.18	[1 2] 172.35 ± 9.18	[1 2] 172.65 ± 9.01
us26	[2] 388.28 ± 22.75	474.83 ± 33.45	[1 2] 293.82 ± 15.44	[1 2 3] 280.05 ± 15.08

Table 4: Metric MAE for avg-max-slot

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2*	*1 2*
euro28	4.20 ± 0.30	5.61 ± 0.51	3.81 ± 0.19	3.88 ± 0.24
	2		*1 2*	*1 2 3*
us26	7.44 ± 0.34	8.82 ± 0.48	6.17 ± 0.33	6.01 ± 0.27

Table 5: Metric R2 for avg-transceivers

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2*	*1 2 3*
euro28	0.99 ± 0.00	0.99 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
	2		*1 2*	*1 2 3*
us26	0.98 ± 0.00	0.98 ± 0.01	1.00 ± 0.00	1.00 ± 0.00

Table 6: Metric R2 for max-transceivers

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2*	*1 2*
euro28	0.99 ± 0.00	0.99 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
	2		*1 2*	*1 2 3*
us26	0.98 ± 0.00	0.98 ± 0.01	1.00 ± 0.00	1.00 ± 0.00

Table 7: Metric R2 for sum-slots

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2*	*1 2*
euro28	0.99 ± 0.00	0.99 ± 0.00	1.00 ± 0.00	1.00 ± 0.00
	2		*1 2*	*1 2 3*
us26	0.98 ± 0.00	0.98 ± 0.01	0.99 ± 0.00	0.99 ± 0.00

Table 8: Metric R2 for avg-max-slot

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2 4*	*1 2*
euro28	0.99 ± 0.00	0.98 ± 0.01	0.99 ± 0.00	0.99 ± 0.00
	2		*1 2*	*1 2 3*
us26	0.98 ± 0.00	0.97 ± 0.01	0.99 ± 0.00	0.99 ± 0.00

Table 9: Metric AOBT for avg-transceivers

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2*	*1 2 3*
euro28	498.26 ± 274.17	873.53 ± 473.06	120.49 ± 37.66	101.01 ± 26.81
	2		*1 2*	*1 2 3*
us26	1630.81 ± 540.46	2251.18 ± 549.54	284.64 ± 49.01	180.13 ± 24.60

Table 10: Metric AOBT for max-transceivers

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2*	*1 2*
euro28	666.52 ± 427.47	992.16 ± 207.76	197.23 ± 37.97	179.46 ± 37.06
	2		*1 2*	*1 2 3*
us26	2404.49 ± 575.63	2895.53 ± 837.82	601.69 ± 78.37	341.02 ± 40.59

Table 11: Metric AOBT for sum-slots

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2*	*1 2*
euro28	213608.94 ± 104496.81	346736.67 ± 124814.64	93857.01 ± 14706.16	94313.42 ± 15638.47
	2		*1 2*	*1 2 3*
us26	697290.54 ± 172565.38	991251.94 ± 345564.50	346324.68 ± 47078.23	296141.08 ± 37705.07

Table 12: Metric AOBT for avg-max-slot

topology	graph-raw-conn	graph-raw-mean	graph-stat-dg	graph-stat-mdg
	2		*1 2 4*	*1 2*
euro28	102.70 ± 49.92	157.16 ± 64.88	58.27 ± 12.54	66.29 ± 16.67
	2		*1 2*	*1 2 3*
us26	237.45 ± 37.03	313.86 ± 69.56	142.71 ± 20.63	130.84 ± 14.67

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