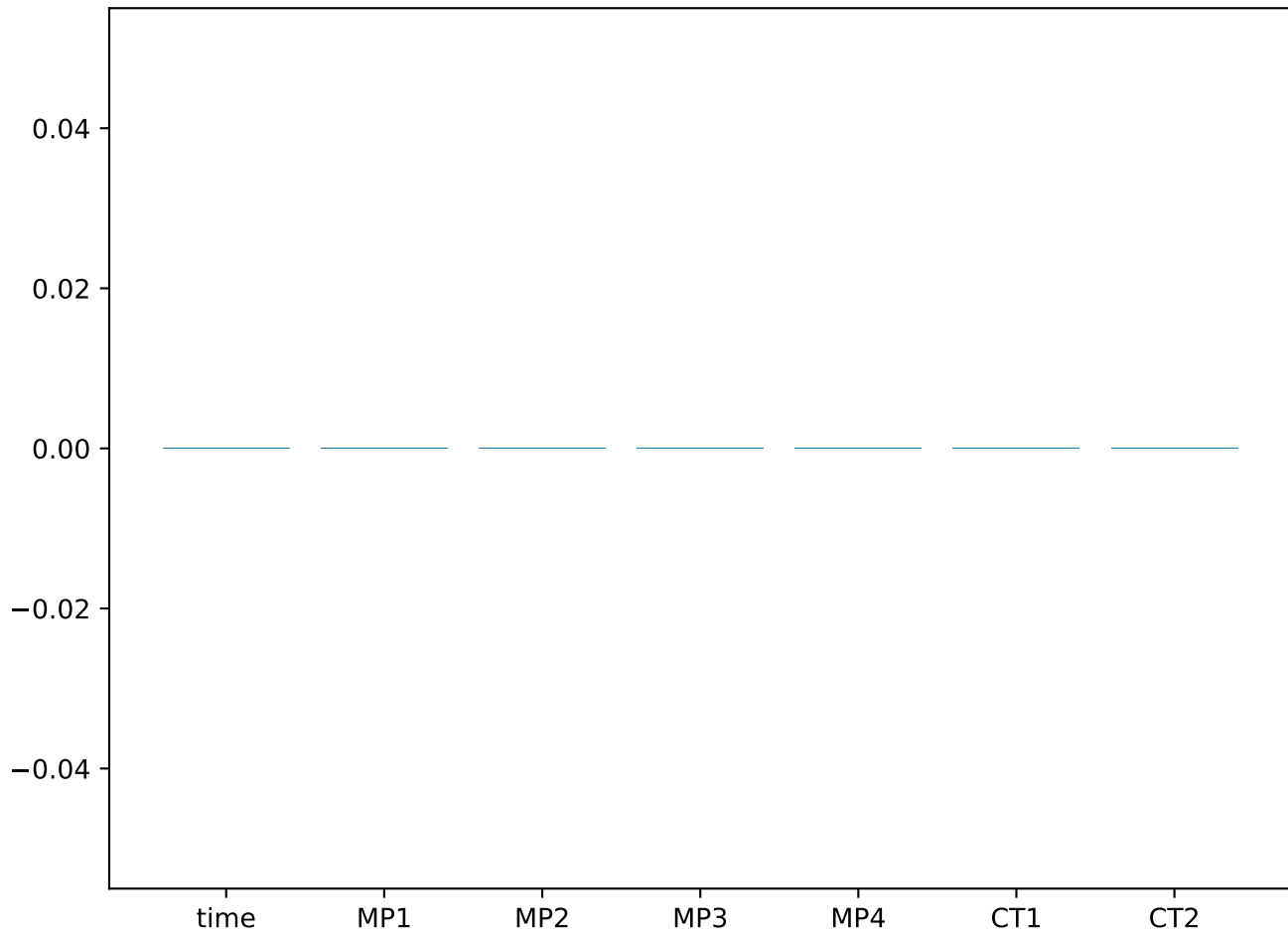
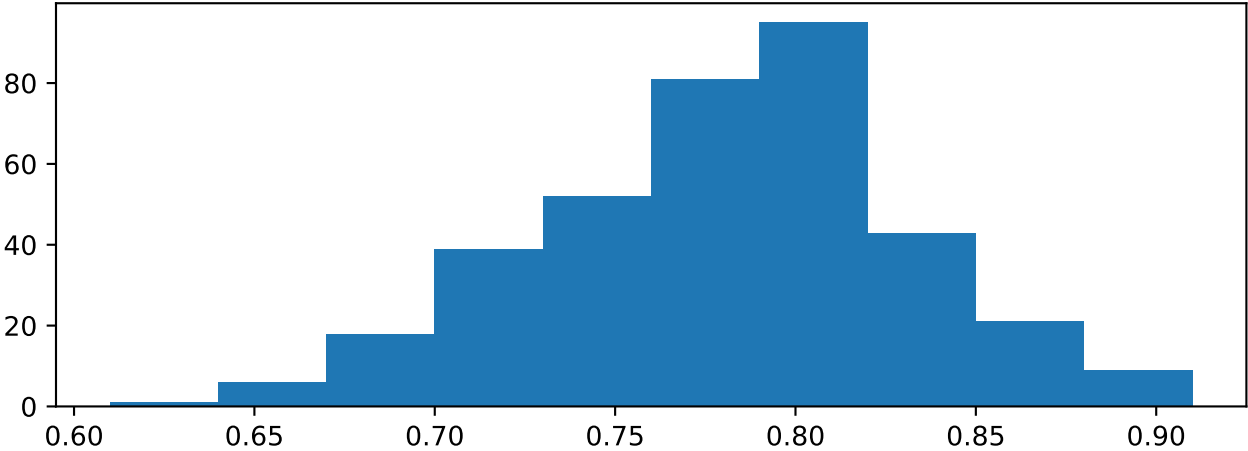


S2: Berth Occupancy Simulation

Percent Missing Zeros in Each Column



S2: Berth Occupancy Simulation
MP1 in S2: Berth Occupancy Simulation

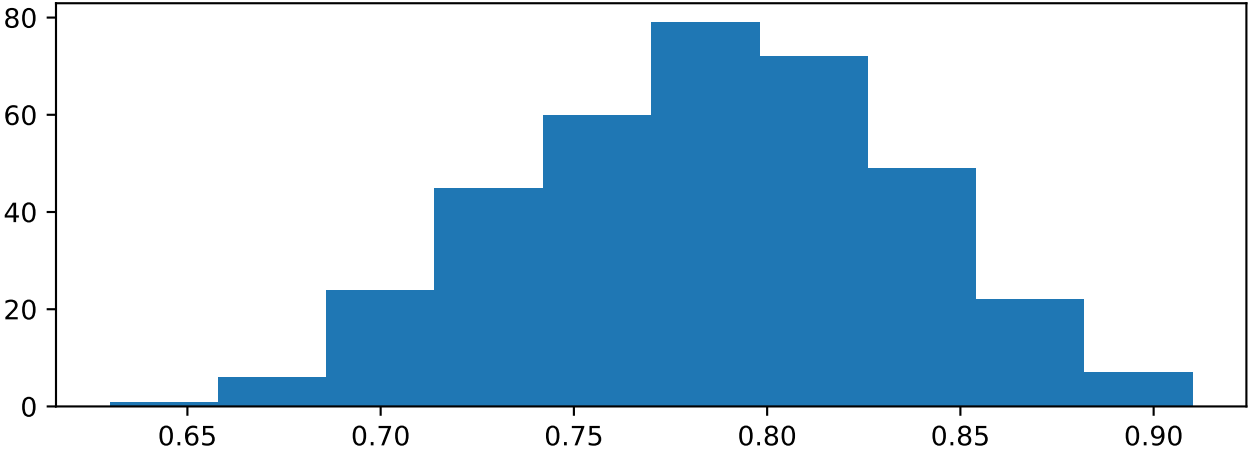


1 outlier(s) detected

time	MP1	MP2	MP3	MP4	CT1	CT2
2025-09-25 00:00:00	0.61	0.67	0.74	0.78	0.76	0.72

S2: Berth Occupancy Simulation

MP2 in S2: Berth Occupancy Simulation

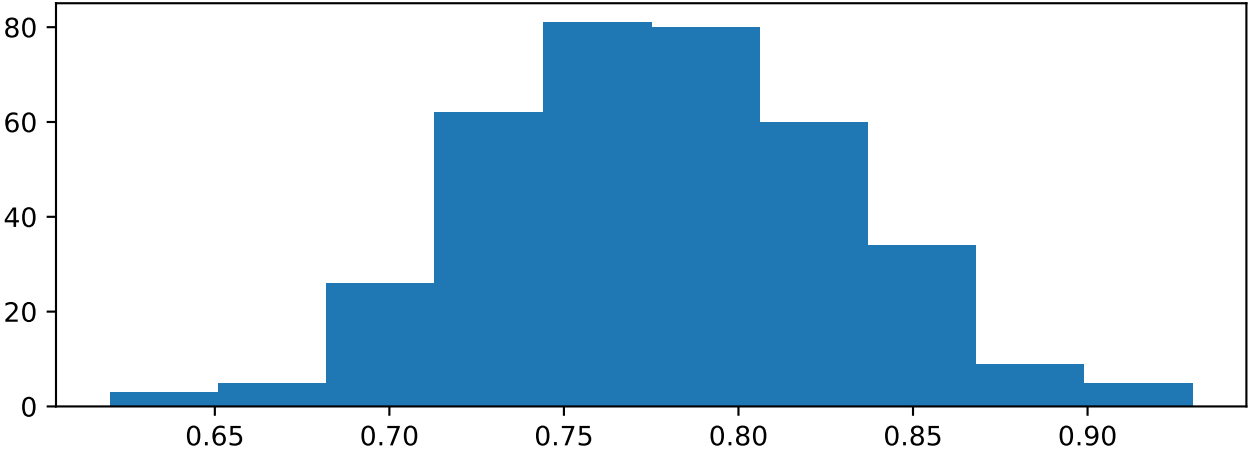


1 outlier(s) detected

time	MP1	MP2	MP3	MP4	CT1	CT2
2025-10-11 00:00:00	0.72	0.63	0.83	0.77	0.78	0.88

S2: Berth Occupancy Simulation

MP3 in S2: Berth Occupancy Simulation

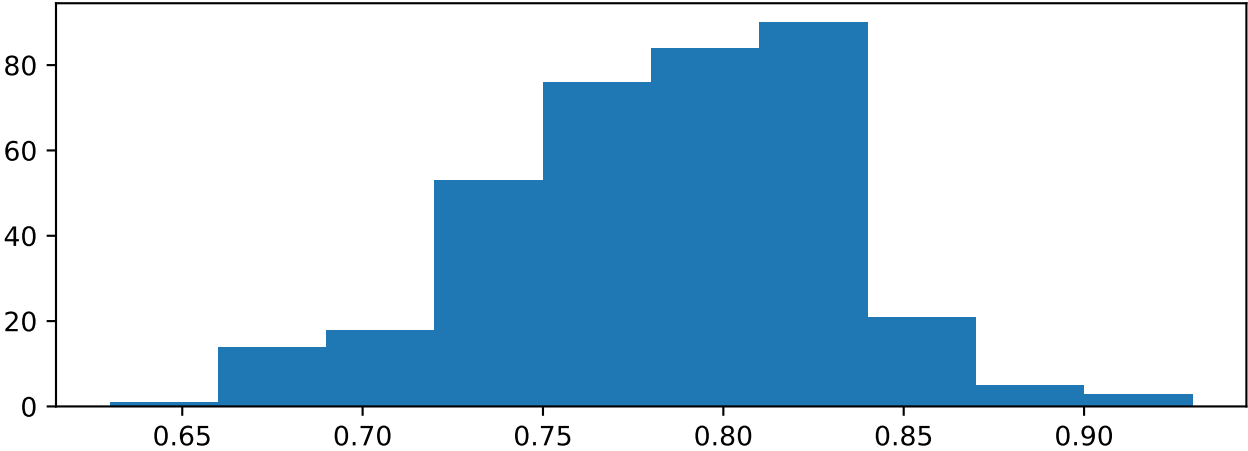


2 outlier(s) detected

time	MP1	MP2	MP3	MP4	CT1	CT2
2025-03-31 00:00:00	0.81	0.86	0.93	0.78	0.81	0.75
2025-08-18 00:00:00	0.8	0.76	0.62	0.83	0.81	0.77

S2: Berth Occupancy Simulation

MP4 in S2: Berth Occupancy Simulation

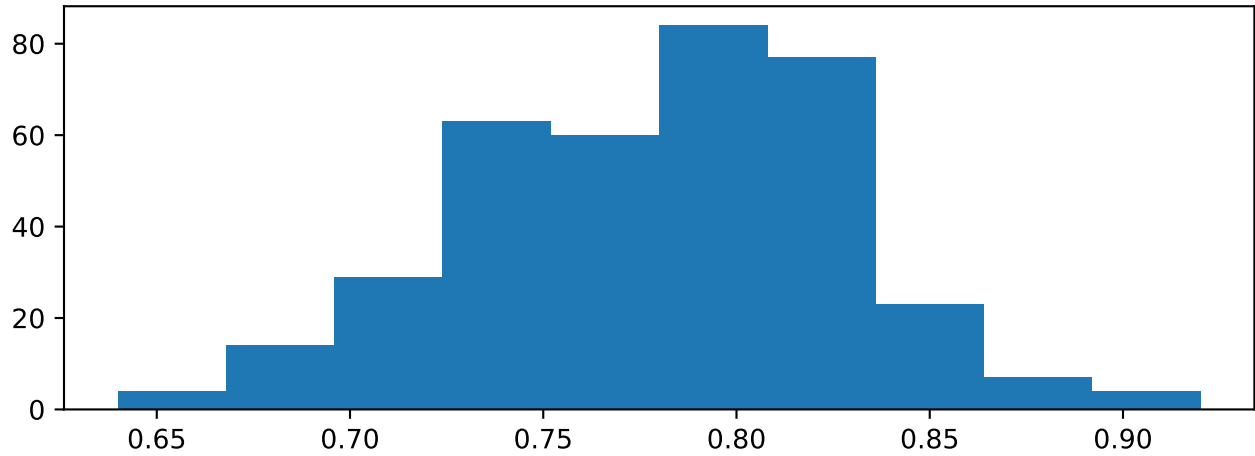


2 outlier(s) detected

time	MP1	MP2	MP3	MP4	CT1	CT2
2025-09-05 00:00:00	0.79	0.81	0.83	0.63	0.85	0.75
2025-12-15 00:00:00	0.69	0.83	0.74	0.93	0.81	0.8

S2: Berth Occupancy Simulation

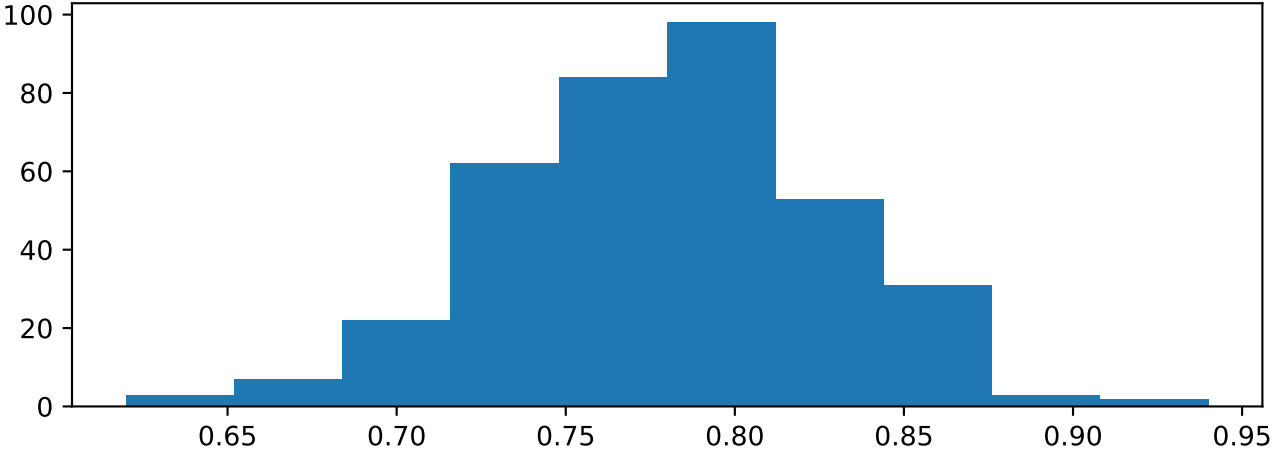
CT1 in S2: Berth Occupancy Simulation



No outliers detected

S2: Berth Occupancy Simulation

CT2 in S2: Berth Occupancy Simulation

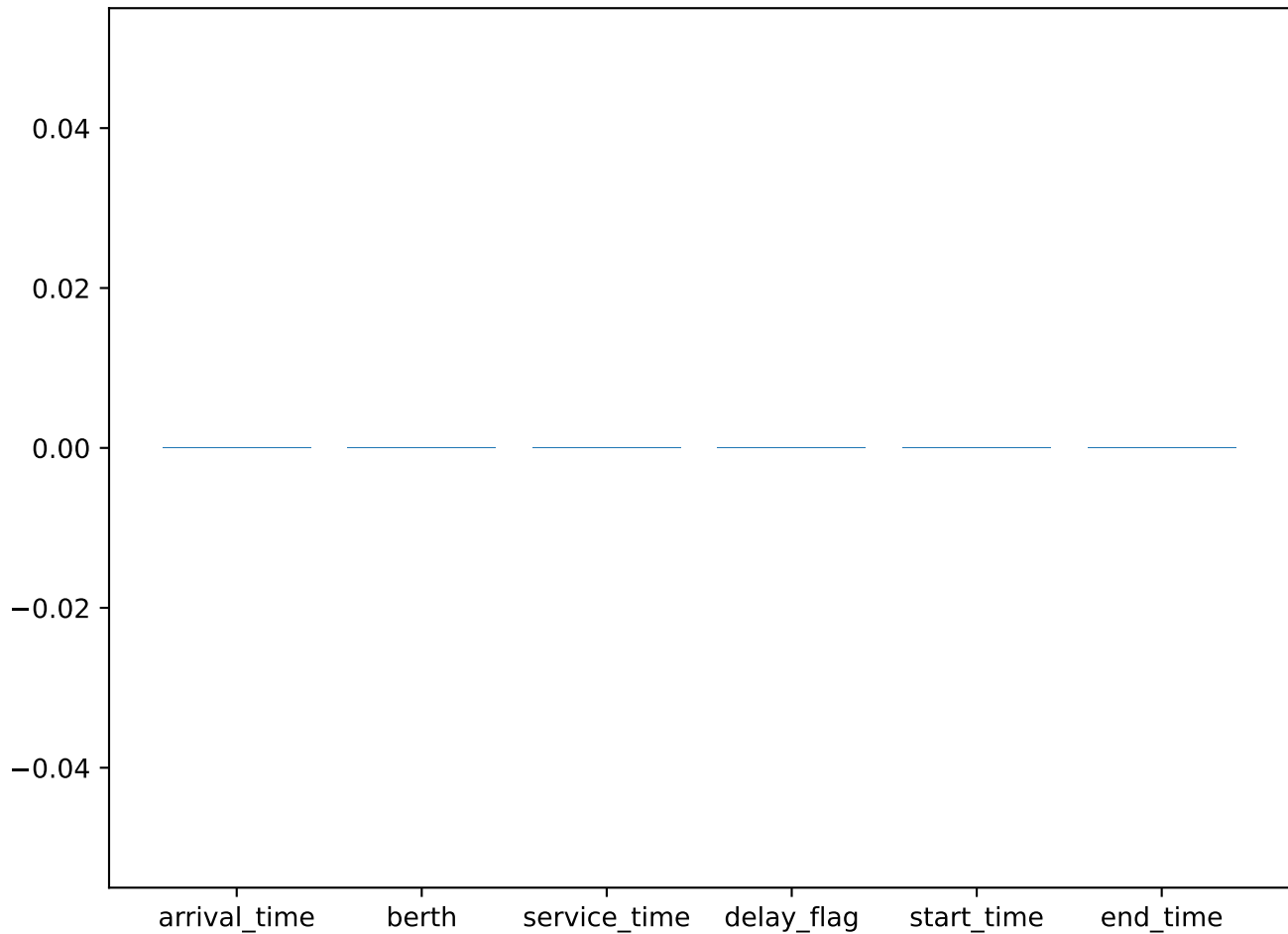


2 outlier(s) detected

time	MP1	MP2	MP3	MP4	CT1	CT2
2025-10-06 00:00:00	0.82	0.77	0.74	0.8	0.76	0.62
2025-10-07 00:00:00	0.78	0.74	0.77	0.84	0.72	0.94

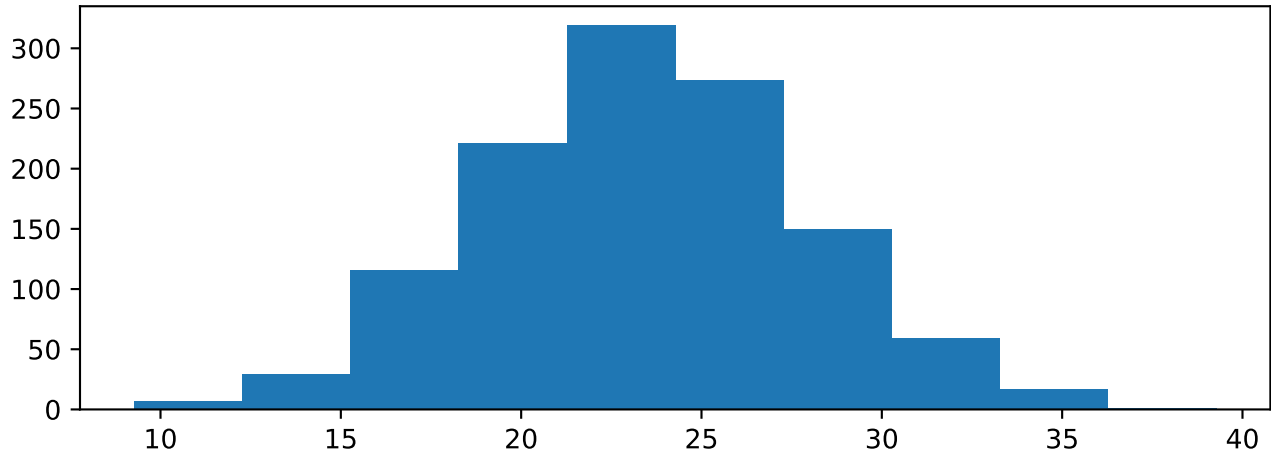
S3: Vessel Arrival & Turnaround

Percent Missing Zeros in Each Column



S3: Vessel Arrival & Turnaround

service_time in S3: Vessel Arrival & Turnaround

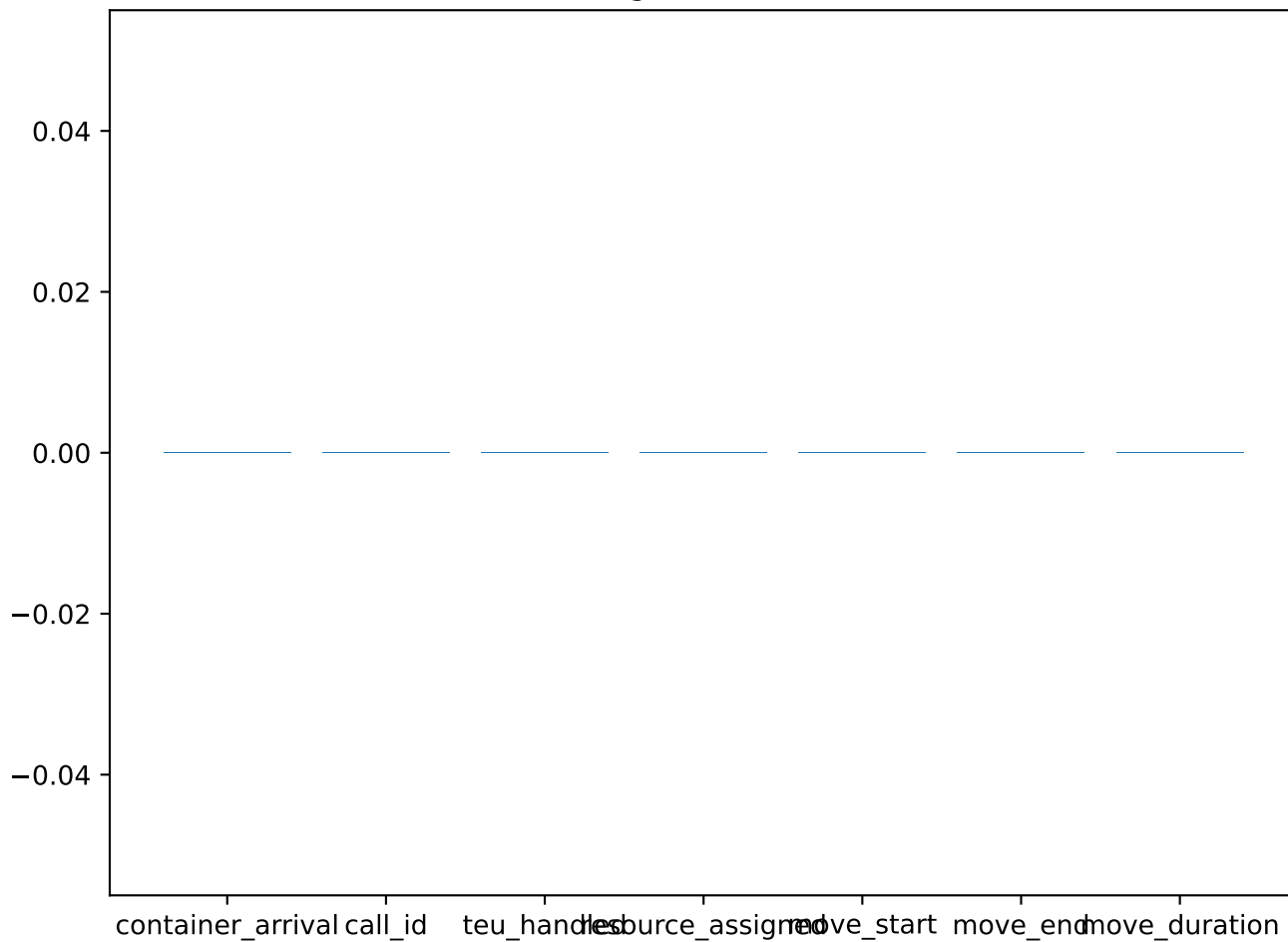


4 outlier(s) detected

arrival_time	berth	service_time	delay_flag	start_time	end_time
2025-03-30 15:30:03	MP3	0 days 09:16:05	0	2025-03-30 15:30:03	2025-03-31 00:46:08
2025-07-21 00:56:31	MP1	0 days 10:02:36	0	2025-07-21 00:56:31	2025-07-21 10:59:07
2025-08-04 05:20:02	MP3	0 days 09:50:53	0	2025-08-04 05:20:02	2025-08-04 15:10:55
2025-08-12 05:19:58	MP3	1 days 15:16:25	1	2025-08-12 05:19:58	2025-08-13 20:36:23

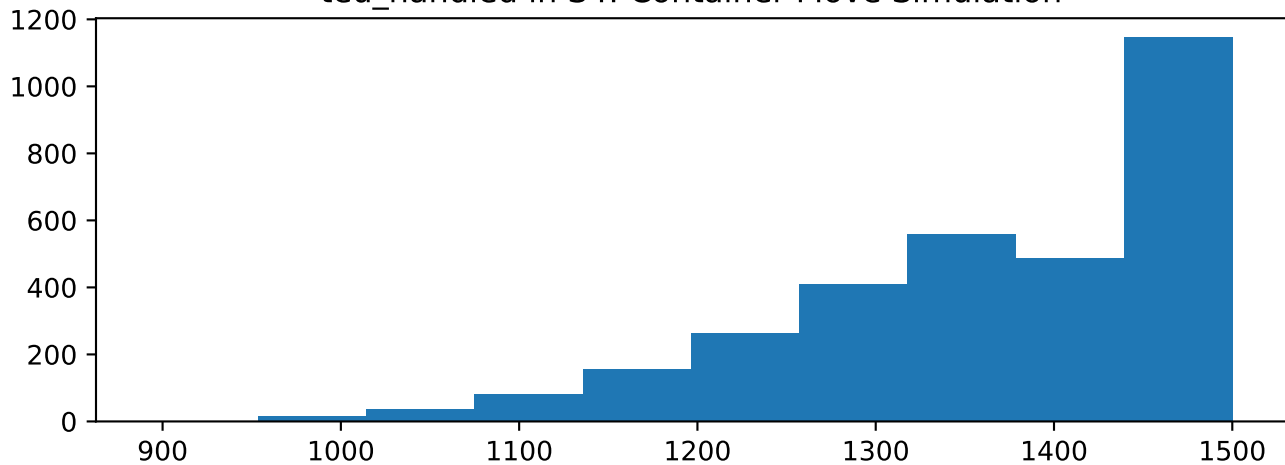
S4: Container Move Simulation

Percent Missing Zeros in Each Column



S4: Container Move Simulation

teu_handled in S4: Container Move Simulation

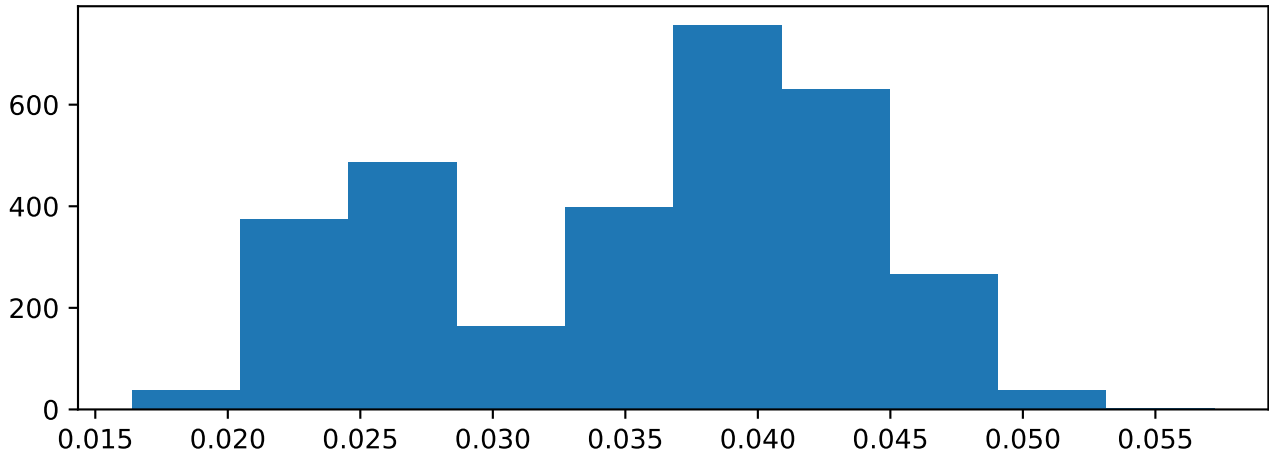


17 outlier(s) detected

container_arrival	call_id	teu_handled	resource_assigned	move_start	move_end	move_duration
2025-05-11 23:49:15	414	968	Yard6	2025-05-11 23:49:15	2025-05-11 23:51:40	0 days 00:02:25
2025-05-11 23:49:15	414	968	Yard3	2025-05-11 23:49:15	2025-05-11 23:51:42	0 days 00:02:27
2025-05-19 07:59:30	451	962	Yard1	2025-05-19 07:59:30	2025-05-19 08:01:32	0 days 00:02:02
2025-05-19 07:59:30	451	962	Yard2	2025-05-19 07:59:30	2025-05-19 08:01:54	0 days 00:02:24
2025-05-19 07:59:30	451	962	Yard4	2025-05-19 07:59:30	2025-05-19 08:02:10	0 days 00:02:40

S4: Container Move Simulation

move_duration in S4: Container Move Simulation



No outliers detected