



## Report Card 11. An analysis of water quality data recorded at Wexford Pier with Exo2 and Trios Opus Sonde's.

The Significance of Correlations between Physicochemical Saline Water Parameters in Studying Climate Change and Nutrient Inputs (Wexford Co. Co and the STREAM project).

### Introduction

Correlations between physicochemical saline water parameters (such as temperature, salinity, oxygen, pH, and nutrients) are crucial in understanding climate change and nutrient inputs into estuaries and seas. These correlations provide valuable insights into the complex interactions within aquatic ecosystems, shedding light on natural processes and human-induced impacts.

The world's estuaries and seas are vital to our planet's ecological balance as the confluences where terrestrial and marine environments converge. These dynamic ecosystems are now under constant pressure from climate change and the increasing influx of nutrients from human activities. Understanding the intricate web of interactions within these water bodies is essential to understanding change, safeguarding their health, and mitigating potential environmental crises with good planning.

### Figure 1 Wexford.



As a simple example, this STREAM report card looks at correlations between water quality parameters recorded at Wexford Pier between the 9th and 20th of September 2023, encompassing a Spring and Neap tidal cycle. Measurements were taken on every sensor for 15 minutes, and over this period, there were 1081 readings of most of the physicochemical parameters. Except for  $\text{NO}_3$  and SAC254 sensors, which sensors intermittently returned sets of readings. For that reason data sets of  $n = 367$  and  $n = 921$  were analysed respectively for these parameters.



The STREAM project is part funded through the ERDF Ireland Wales Programme



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Figure 2 Wexford County Council sensor box housing STREAM water quality sensors.



The data recorded included the following in Table 1, and for a more detailed explanation of these water quality parameters, please see:

<https://www.marinestream.eu/tool-kit-monitoring-for-monitoring-for-coastal-and-marine-water-quality-physiochemical-parameters/>



Table 1. The parameters recorded and measurements broadcasted live from the STREAM sensors on Wexford Pier (In association with Wexford County Council).

Date	Time	Temperature_C	SpConductivity_mS	Salinity_PSU	Depth_m	pH
Turbidity_FNU	DO_pc	DO_mgl	fDOM_RFU	fDOM_QSU	Chlorophyll_ugl	Chlorophyll_RFU
BGAPE_ugl	BGAPE_RFU	NNO3_mgl	TSSQeq_mgl	SAC254_lm	Abs360_AU	ABS210_AU
ABS254_AU	NO3_mgl	UVT254_pc	NNO3_mgl_UP	TSSQeq_mgl_UP	SAC254_lm_UP	Abs360_AU_UP
ABS210_AU_UP	FIT_ERR_UP	ABS254_AU_UP	NO3_mgl_UP	UVT254_pc_UP	OPUS_TIME	Battery



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Pearson correlation (Equation 1) coefficients were used between pairs of parameters to analyse the seawater quality data and identify correlations (associations or connections) between the parameters.

Correlation coefficients range from -1 to 1, with:

- Values close to 1 indicating a strong positive correlation (as one parameter increases, the other also tends to increase).
- Values close to -1 indicating a strong negative correlation (as one parameter increases, the other tends to decrease).
- Values close to 0 indicate little to no correlation between the parameters.

### Formula 1 in Excel

**In Excel the following formula was used: =CORREL(B2:B1081, C2:C1081)**

For example, formula 1 calculated the Pearson correlation coefficient between the Depth\_m values (where they are in cells B2 to B1081) and the Salinity\_PSU values (where they are in cells C2 to C1081). The cell references were adjusted to match the data location, for example, NO3 (n = 367) and SAC254 (n = 921).

Correlation coefficients can provide insights into the relationships between various water quality parameters in a dataset. However, it is essential to realise that correlation does not imply causation, and other factors or interactions may influence these relationships. Further analysis or domain knowledge may be required to understand the underlying processes.

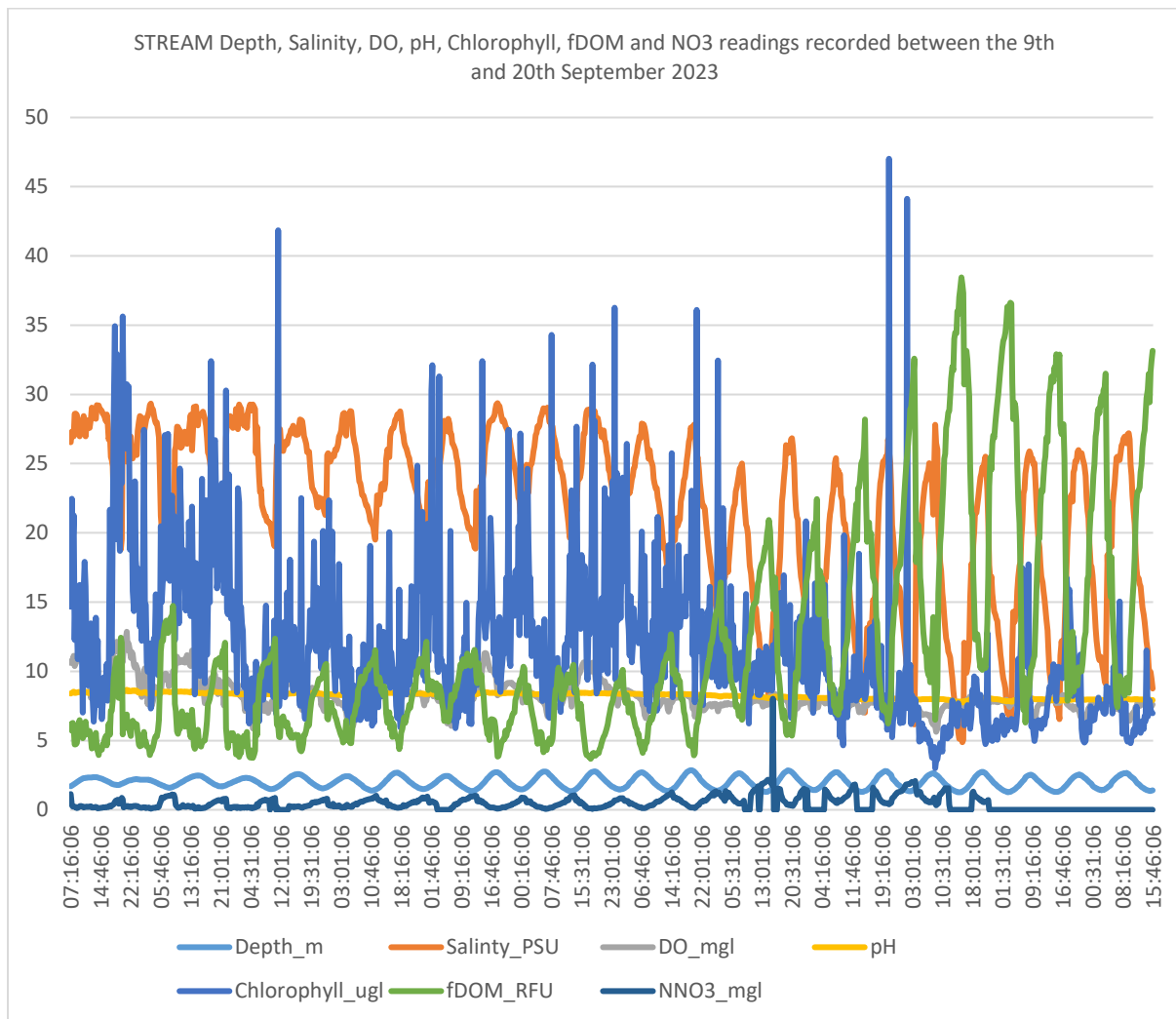




### Results

The following parameters, Depth, Salinity, DO, pH, Chlorophyll, fDOM, and NO3, were compared from Wexford Pier between September 9 and September 20, 2023, for the purposes of this study (example), and Table 2 shows their correlation coefficients. As shown in Figure 3, interpreting relationships between physiochemical parameters is challenging with such diverse data.

**Figure 3. Depth, salinity, DO, pH, chlorophyll, fDOM, and NO3 were recorded with STREAM sensors on Wexford Pier between the 9<sup>th</sup> and 20<sup>th</sup> of September 2023.**



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The Pearson-calculated correlation coefficients for depth, salinity, DO, pH, chlorophyll, fDOM, and NO3 are shown in Table 2.

**Table 2 shows the Pearson correlation coefficients between selected data sets (9th to 20th September 2023).**

Parameter	Temperature_C	Salinity_PSU	DO_mgl	pH	Chlorophyll_ugl	Turbidity_FNU	fDOM_RFU	BGAPE_ugl	NNO3_mgl	SAC254_lm	TSSQeq_mgl_UP
Depth_m	0.07	0.717	-0.001	0.153	-0.06	-0.012	-0.601	-0.054	-0.789	-0.254	-0.262
Temperature_C		0.624	0.611	0.878	0.437	-0.444	-0.624	0.348	-0.129	-0.471	-0.536
Salinity_PSU			0.284	0.663	0.216	-0.255	-0.921	0.177	-0.918	-0.526	-0.521
DO_mgl				0.666	0.537	-0.22	-0.28	0.449	-0.124	-0.279	-0.342
pH					0.542	-0.538	-0.748	0.446	0.028	-0.507	-0.709
Chlorophyll_ugl						-0.131	-0.328	0.765	0.195	-0.178	-0.34
Turbidity_FNU							0.283	-0.033	0.263	0.317	0.597
fDOM_RFU								-0.288	0.912	0.568	0.663
BGAPE_ugl									0.201	-0.17	-0.273
NNO3_mgl										0.645	0.245
SAC254_lm											0.714

\*Correlations of significance are highlighted in Dark green, green, orange and red according to their significance.

Below is an analysis of the correlation coefficients between the water quality parameters examined at Wexford Pier between September 9th and 20th, 2023:

<b>1. Depth_m:</b>
- Strong positive correlation with Salinity_PSU (0.717): As depth increases, salinity tends to increase.
- Weak positive correlation with pH (0.153): Deeper waters appear to have slightly higher pH.
- Strong negative correlation with fDOM_RFU (-0.601): As depth increases, fDOM tends to decrease.
- Strong negative correlation with BGAPE_ugl (-0.789): In this example as depth increases, the concentration of blue-green algae pigments tends to decrease.
- Moderate negative correlation with NNO3_mgl (-0.254): Deeper waters tend to show lower nitrate nitrogen concentrations.
- Moderate negative correlation with SAC254_lm (-0.262): Deeper waters tending to have lower absorbance readings at 254 nm.





<b>2. Temperature_C:</b>
- Strong positive correlation with Salinity_PSU (0.624): As temperature increases, salinity tends to increase (time of year?).
- Strong positive correlation with DO_mgl (0.611): As temperature increases, dissolved oxygen appears to increase. *But we also know that warmer water can hold less dissolved oxygen.
- Strong positive correlation with pH (0.878): As temperature increases, pH tends to increase.
- Moderate negative correlation with Chlorophyll_ugl (-0.444): Higher temperatures are associated with lower chlorophyll concentrations.
- Strong negative correlation with Turbidity_FNU (-0.624): As temperature increases, water appears to less turbid.
- Weak positive correlation with fDOM_RFU (0.348): Higher temperatures are associated with slightly higher fDOM.
- Weak negative correlation with BGAPE_ugl (-0.129): Higher temperatures are associated with slightly lower blue-green algae pigment concentrations.
- Moderate negative correlation with NNO3_mgl (-0.471): Higher temperatures are associated with lower nitrate nitrogen concentrations.
- Moderate negative correlation with SAC254_lm (-0.536): Higher temperatures are associated with lower absorbance at 254 nm.

<b>3. Salinity_PSU:</b>
- Moderate positive correlation with DO_mgl (0.663): As salinity increases, dissolved oxygen tends to increase.
- Weak positive correlation with pH (0.216): As salinity increases, pH tends to increase (more oceanic waters).
- Strong negative correlation with Chlorophyll_ugl (-0.921): As salinity increases, chlorophyll concentration tending to decrease.
- Weak negative correlation with Turbidity_FNU (-0.254): As salinity increases, water tends to become less turbid. Less influence from the Slaney River?
- Strong negative correlation with fDOM_RFU (-0.918): As salinity increases, fDOM tends to decrease.
- Strong negative correlation with BGAPE_ugl (-0.525): As salinity increases, blue-green algae pigment concentration tends to decrease.





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- Strong negative correlation with NNO3\_mgl (-0.521): As salinity increases, nitrate nitrogen concentration tends to decrease (Oceanic water tends to have less nutrients).

**4. DO\_mgl:**

- Moderate positive correlation with pH (0.666): As dissolved oxygen increases, pH tends to increase.

- Weak positive correlation with fDOM\_RFU (0.449): Higher dissolved oxygen levels are associated with slightly higher fDOM.

- Weak negative correlation with BGAPE\_ugl (-0.124): Higher dissolved oxygen levels are associated with slightly lower blue-green algae pigment concentrations.

- Weak negative correlation with NNO3\_mgl (-0.279): Higher dissolved oxygen levels are associated with slightly lower nitrate nitrogen concentrations.

- Moderate negative correlation with SAC254\_lm (-0.342): Higher dissolved oxygen levels are associated with lower absorbance at 254 nm.

**5. pH:**

- Strong negative correlation with fDOM\_RFU (-0.709): As pH decreases, (becomes more acidic), fDOM tends to increase.

- Moderate negative correlation with BGAPE\_ugl (-0.507): As pH decreases, blue-green algae pigment concentration tends to increase.

**6. Chlorophyll\_ugl:**

- Strong positive correlation with Turbidity\_FNU (0.764): Higher chlorophyll concentrations are associated with more turbid water.

- Weak negative correlation with fDOM\_RFU (-0.178): Higher chlorophyll concentrations are associated with slightly lower fDOM.

- Weak negative correlation with BGAPE\_ugl (-0.340): Higher chlorophyll concentrations are associated with slightly lower blue-green algae pigment concentrations.

**7. Turbidity\_FNU:**

- Moderate positive correlation with fDOM\_RFU (0.597): More turbid water tends to have higher fDOM.



**8. fDOM\_RFU:**

- Moderate positive correlation with BGAPe\_ugl (0.662): Higher fDOM is associated with higher blue-green algae pigment concentrations.

**9. BGAPe\_ugl:**

- Weak negative correlation with NNO3\_mgl (-0.170): Higher blue-green algae pigment concentrations are associated with slightly lower nitrate nitrogen concentrations.

**10. NNO3\_mgl:**

- Moderate positive correlation with SAC254\_lm (0.714): Higher nitrate nitrogen concentrations are associated with higher absorbance at 254 nm.

These correlations provide insights into the relationships between various water quality parameters in the dataset (9<sup>th</sup> September to 20<sup>th</sup> September 2023). However, the data set is limited and only reflects that period and some of the results may be misleading due to the small data set used.

**Conclusions**

Correlations between various physicochemical saline water parameters are instrumental in unravelling the complexities of estuarine and coastal ecosystems. These parameters encompass a range of factors, including temperature, salinity, dissolved oxygen levels, pH, nutrient concentrations, and more. Examining how these variables interact and influence one another holds significant implications for climate change research and the management of nutrient inputs.

1. Climate Change Impacts: We know that rising global temperatures have profound consequences for aquatic ecosystems. For instance, studying correlations between temperature and salinity can help identify regions most vulnerable to temperature increases and salinity fluctuations. Such insights are invaluable for predicting shifts in species distributions, changes in phenology, altered migration patterns, and changes in primary productivity.

2. Nutrient Loading: Human activities, such as agriculture and urban development, have significantly increased nutrient runoff into estuaries and seas. Correlations between nutrient concentrations, temperature, and dissolved oxygen levels can reveal the extent of eutrophication—excessive nutrient enrichment—and its impact on water quality. Understanding these relationships aids in developing effective strategies to mitigate nutrient pollution and its harmful consequences, such as harmful algal blooms.

3. Biodiversity Conservation: Estuaries and seas are home to diverse ecosystems, from mussel beds to coral reefs. Studying correlations between physicochemical parameters, helps identify environmental conditions conducive to maintaining biodiversity. This knowledge is essential for knowledge-based conservation efforts and the protection of critical habitats.







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4. Predictive Models: State agencies and scientists can develop predictive models by establishing correlations between physicochemical parameters and environmental trends. These models will enable policymakers and resource managers to make informed decisions about habitat restoration, fisheries management, and climate adaptation strategies.

In conclusion, the correlations between different physicochemical saline water parameters serve as powerful tools for monitoring, understanding, and addressing climate change's impacts and nutrient inputs on our estuaries and seas. They enable us to make evidence-based decisions to protect these vital ecosystems, ensuring their resilience and sustainability for future generations.

## Acknowledgements

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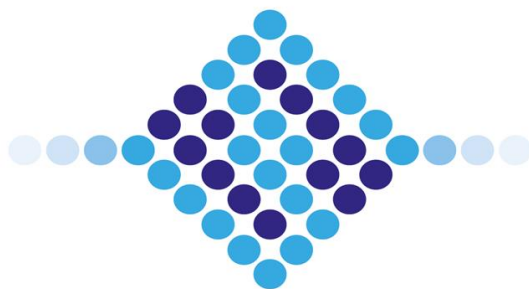
Marine Institute -Dave Clarke and Jonathan Kelly

Tramore Coast Guard

Dunmore East Harbour - Monitoring sites

Waterford City River Rescue - Monitoring sites

Southern Regional Assembly - Breda Curran



# STREAM

Sensor Technologies for Remote Environmental Aquatic Monitoring



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## STREAM Report

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Appendix 1

Date	Time	Depth_m	Temperature_C	Salinity_PSU	DO_mgl	pH	Chlorophyll_ugl	Turbidity_FNU	fDOM_RFU	BGAPE_ugl	NNO3_mgl	SAC254_lm	TSSQeq_mgl_UP
09/09/23	07:16:06	1.706	20.178	26.54	10.61	8.4	14.67	10.52	6.18	46.95	1.1434	21.086	106.47
09/09/23	07:31:06	1.748	20.223	27.31	10.79	8.45	22.46	3.26	5.71	49.02	0.3454	29.942	352.8
09/09/23	07:46:06	1.785	20.264	27.06	10.81	8.48	18.89	3.61	6.28	80.54	0.2355	9.9878	72.466
09/09/23	08:01:06	1.836	20.271	26.97	11.12	8.53	21.27	3.11	5.94	59.99	0.2295	9.8522	21.829
09/09/23	08:16:06	1.885	20.101	28.6	10.37	8.45	12.28	3.86	4.71	48.38	0.2041	9.6492	25.968
09/09/23	08:31:06	1.93	20.0	28.62	10.57	8.45	15.86	3.56	4.72	41	0.2108	8.4332	39.433
09/09/23	08:46:06	1.986	20.083	28.52	10.76	8.46	13.61	4.15	4.82	53.56	0.1271	8.6638	23.586
09/09/23	09:01:06	2.036	20.132	28.04	10.99	8.48	10.88	3.34	5.54	33.12	0.136	8.1073	31.918
09/09/23	09:16:06	2.091	20.228	27.25	11.36	8.5	13.46	3.29	6.28	39.31	0.1875	8.6863	36.432
09/09/23	09:31:06	2.133	20.239	26.97	11.34	8.51	16.25	3.05	6.47	44.06	0.2523	8.746	33.288
09/09/23	09:46:06	2.181	20.189	27.47	10.98	8.48	11.4	3.26	5.87	50.09	0.2716	9.0555	40.362
09/09/23	10:01:06	2.227	20.178	27.63	10.89	8.48	11.94	2.9	5.9	32.94	0.2518	8.7512	43.571
09/09/23	10:16:06	2.253	20.141	28.14	10.52	8.46	7.01	3.09	5.17	23.21	0.2335	9.3153	30.48
09/09/23	10:31:06	2.282	20.11	28.43	10.48	8.45	16	3.03	5.31	49.66	0.1698	8.2708	36.269



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09/09/23	10:46:06	2.293	20.167	28.04	10.41	8.46	17.9	2.91	5.77	53.6	0.1934	8.444	37.246
09/09/23	11:01:06	2.309	20.328	26.97	11.19	8.52	16.16	2.64	6.36	59.78	0.2018	8.6799	32.585
09/09/23	11:16:06	2.315	20.207	27.95	10.1	8.46	10.33	2.48	5.46	29.12	0.2362	9.713	31.506
09/09/23	11:31:06	2.325	20.188	28.13	9.55	8.44	8.98	2.72	5.5	27.47	0.206	9.4515	29.197
09/09/23	11:46:06	2.339	20.279	27.69	9.8	8.48	11.83	4.18	5.64	41.22	0.2163	8.8382	31.228
09/09/23	12:01:06	2.331	20.318	27.58	9.14	8.46	11.35	5.35	5.7	27.23	0.2343	9.2732	22.946
09/09/23	12:16:06	2.34	20.207	28.23	8.09	8.37	13.46	3.57	5.16	29.08	0.2526	9.2491	27.591
09/09/23	12:31:06	2.34	20.062	29.05	8.96	8.39	9.96	2.91	4.43	19.91	0.1676	9.1741	31.686
09/09/23	12:46:06	2.357	20.142	28.75	8.81	8.39	7.83	3.2	4.59	25.18	0.1716	8.242	34.512
09/09/23	13:01:06	2.352	20.176	28.63	8.03	8.38	6.37	2.26	4.87	21.74	0.1734	8.7911	27.348
09/09/23	13:16:06	2.363	20.245	28.27	8.09	8.37	7.31	3	5.24	47.82	0.1831	9.1434	22.682
09/09/23	13:31:06	2.354	20.256	28.23	10.37	8.46	13.87	2.63	5.55	52.28	0.2016	9.0985	18.876
09/09/23	13:46:06	2.351	20.079	29.23	9.65	8.41	10	2.41	4.4	28.57	0.1566	9.0569	20.527
09/09/23	14:01:06	2.332	20.037	29.13	9.24	8.4	12.23	2.52	4.22	27.74	0.1017	8.5597	19.051
09/09/23	14:16:06	2.308	20.052	29.21	8.16	8.39	7.55	2.74	3.96	21.28	0.1115	8.2999	17.478
09/09/23	14:31:06	2.295	20.111	28.97	7.55	8.35	7.58	2.26	4.43	32.23	0.1237	8.3407	17.327



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09/09/23	14:46:06	2.271	20.134	28.88	7.65	8.36	8.62	3.09	4.35	22.76	0.142	8.4691	18.301
09/09/23	15:01:06	2.251	20.176	28.8	8.43	8.39	6.54	2.81	4.34	17.23	0.1508	8.906	19.686
09/09/23	15:16:06	2.211	20.236	28.62	8.4	8.38	7.67	2.73	4.71	28.86	0.169	8.9172	25.921
09/09/23	15:31:06	2.181	20.293	28.52	8.75	8.39	9.57	2.6	4.72	23.1	0.1861	9.0274	19.718
09/09/23	15:46:06	2.15	20.336	28.36	8.61	8.4	8.48	2.34	5.1	19.32	0.1611	9.0618	23.635
09/09/23	16:01:06	2.106	20.466	28.07	8.61	8.41	9.01	5.1	5.34	18.09	0.1878	8.9305	21.918
09/09/23	16:16:06	2.084	20.314	28.54	9.33	8.45	10.54	2.42	4.65	56.81	0.2169	8.9114	23.952
09/09/23	16:31:06	2.042	20.556	27.9	9.52	8.44	7.87	4.31	5.39	29.7	0.182	8.7141	20.008
09/09/23	16:46:06	2.013	20.943	26.75	10.46	8.49	8.82	3.41	6.2	26.28	0.2184	9.2037	22.434
09/09/23	17:01:06	1.967	20.655	27.09	9.41	8.42	21.67	2.61	5.43	76.9	0.3038	9.6547	27.849
09/09/23	17:16:06	1.935	21.153	25.49	10.6	8.51	13.03	2.52	7.15	37.88	0.2397	9.4676	21.901
09/09/23	17:31:06	1.889	21.231	25.26	10.69	8.52	11.3	2.9	7.15	27.76	0.3063	10.681	27.593
09/09/23	17:46:06	1.856	21.36	24.8	11.05	8.54	20.51	2.73	7.9	68.54	0.3433	10.23	26.826
09/09/23	18:01:06	1.833	21.715	22.45	11.92	8.61	28.23	2.91	9.55	72.77	0.3887	10.911	27.001
09/09/23	18:16:06	1.819	21.822	21.38	11.84	8.63	34.94	2.3	10.2	72.68	0.578	12.053	26.934
09/09/23	18:31:06	1.808	21.838	20.83	11.45	8.64	19.54	2.31	10.58	45.26	0.6719	12.334	27.741



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09/09/23	18:06	1.79	21.894	20.25	12.13	8.65	32.92	3.16	10.94	89.91	0.6711	13.019	32.268
09/09/23	19:06	1.787	21.133	23.86	11.66	8.56	25.81	3.18	8.29	69.21	0.7284	12.75	27.139
09/09/23	19:06	1.79	21.118	24.05	11.72	8.58	21.4	2.94	8.08	92.6	0.4359	10.897	28.526
09/09/23	19:06	1.804	21.355	23.3	11.13	8.6	18.7	2.56	9.13	50.74	0.4522	11.137	35.925
09/09/23	19:06	1.852	22.102	18.8	12.22	8.67	26.31	4.22	12.44	77.97	0.558	11.65	29.185
09/09/23	20:06	1.878	21.865	19.55	11.76	8.64	23.59	3.65	12.08	84.58	0.8644	14.496	38.967
09/09/23	20:06	1.906	20.406	27.48	10.68	8.48	35.62	3.39	5.45	110.75	0.7448	14.122	51.494
09/09/23	20:06	1.94	20.774	26.27	11.63	8.54	27.73	4.07	6.48	86.15	0.1638	9.5725	31.959
09/09/23	20:06	1.971	21.142	26.24	12.34	8.6	26.82	3.28	6.24	90.09	0.2544	10.734	38.337
09/09/23	21:06	2.008	21.211	26.25	12.38	8.61	26.1	3.13	6.21	80.03	0.2366	10.471	26.056
09/09/23	21:06	2.041	21.564	25.14	12.86	8.67	30.73	3.09	6.89	83.22	0.2484	10.228	27.578
09/09/23	21:06	2.073	20.883	26.66	11.52	8.56	30.16	2.62	5.89	83.04	0.2803	10.939	39.406
09/09/23	21:06	2.101	21.145	25.8	12.01	8.61	30.59	2.88	6.15	88.1	0.2134	9.8033	42.66
09/09/23	22:06	2.119	20.776	27	11.51	8.55	18.79	2.93	5.58	66.17	0.2605	10.059	27.543
09/09/23	22:06	2.132	20.746	26.96	10.97	8.55	21.88	2.44	5.33	69.82	0.1921	9.1855	31.494
09/09/23	22:06	2.157	21.115	25.92	11.39	8.59	22.17	2.46	6.33	65.62	0.2057	10.058	27.952



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09/09/23	22:06	2.173	21.262	25.38	11.25	8.62	15.79	2.54	6.43	50.59	0.2515	10.154	27.313
09/09/23	23:01:06	2.188	21.13	26.07	10.45	8.57	14.35	2.67	6.02	64.67	0.2882	10.333	28.08
09/09/23	23:16:06	2.202	21.252	25.83	10.26	8.59	23.72	2.22	6.25	71.12	0.268	10.499	29.449
09/09/23	23:31:06	2.211	21.282	25.76	10.5	8.61	17.99	2.27	6.14	49.84	0.266	10.948	34.212
09/09/23	23:46:06	2.222	21.315	25.63	10.33	8.6	17.09	2.32	6.16	52.86	0.2745	10.258	37.331
10/09/23	00:01:06	2.191	20.752	27.35	10.11	8.5	16.05	2.55	5.44	43.94	0.2588	10.842	35.834
10/09/23	00:16:06	2.199	20.6	28.05	8.95	8.44	17.38	2.51	4.7	50.88	0.1783	10.385	36.101
10/09/23	00:31:06	2.166	20.526	28.43	8.65	8.43	13.22	2.77	4.58	24.31	0.1728	8.809	42.922
10/09/23	00:46:06	2.17	20.542	28.36	9.01	8.44	15.3	2.42	4.62	58.72	0.1528	9.4143	28.025
10/09/23	01:01:06	2.172	20.566	28.32	8.14	8.42	12.2	2.45	4.66	42.55	0.1472	9.5554	30.737
10/09/23	01:16:06	2.164	20.736	27.66	9.43	8.45	14.58	2.5	5.23	43.93	0.1581	10.01	32.107
10/09/23	01:31:06	2.184	20.901	27.25	9.9	8.49	27.45	2.46	5.62	77.33	0.1934	10.002	35.882
10/09/23	01:46:06	2.172	20.844	27.63	10.22	8.5	14.98	2.34	4.94	37.1	0.1747	10.092	25.038
10/09/23	02:01:06	2.183	20.759	28.03	9.7	8.48	14.8	2.68	4.95	46.44	0.125	10.245	26.6
10/09/23	02:16:06	2.183	20.668	28.34	8.94	8.42	10.65	2.9	4.59	44.5	0.1493	9.9774	37.249
10/09/23	02:31:06	2.172	20.666	28.42	7.62	8.42	9.97	2.43	4.54	58.68	0.1392	9.3369	25.681



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STREAM

10/0 9/20 23	02: 46: 06	2.1 67	20.51 8	28.8	8.5 3	8. 38	10.06	2.15	4.46	37.8 1	0.16	9.78 83	29.22
10/0 9/20 23	03: 01: 06	2.1 3	20.34 8	29.2 2	9.6 2	8. 42	12.03	2.6	3.95	27.9 4	0.12 99	8.84 56	45.88 3
10/0 9/20 23	03: 16: 06	2.1 26	20.32 3	29.3 3	9.2 8	8. 46	7.32	2.23	4.17	24.0 1	0.07 56	9.17 36	28.88 6
10/0 9/20 23	03: 31: 06	2.0 99	20.44 2	29.0 2	7.4 9	8. 36	7.96	2.19	4.28	33.8 1	0.10 57	9.63 39	29.86 4
10/0 9/20 23	03: 46: 06	2.0 7	20.47 6	28.9	7.8 6	8. 38	11.51	2.09	4.55	27.9	0.13 43	9.44 81	29.28 7
10/0 9/20 23	04: 01: 06	2.0 46	20.55 6	28.5	8.1 9	8. 4	12.39	2.08	4.83	43.3 1	0.13 64	9.87 2	32.57 8
10/0 9/20 23	04: 16: 06	2.0 12	20.63 8	28.1 5	8.9	8. 42	12.19	1.82	5.17	30.3 7	0.15 29	9.36 46	38.28 3
10/0 9/20 23	04: 31: 06	1.9 69	20.65 5	27.9 1	8.5 8	8. 42	15.57	2.15	5.33	46.8 5	0.15 29	9.36 46	38.28 3
10/0 9/20 23	04: 46: 06	1.9 43	20.64 8	27.9 9	8.5 4	8. 41	11.13	2.43	5.29	38.1 7	0.18 53	9.60 95	48.05 9
10/0 9/20 23	05: 01: 06	1.9 06	20.65 9	27.4 4	8.4 3	8. 42	9.73	4.01	5.76	25.7 5	0.17 63	11.2 4	39.54 1
10/0 9/20 23	05: 16: 06	1.8 62	20.63 7	26.9	8.6 3	8. 42	10.06	2.3	6.47	28.7 7	0.24 46	10.5 96	43.11 9
10/0 9/20 23	05: 31: 06	1.8 41	20.56 3	24.2 9	8.3 4	8. 44	11.39	3.55	8.78	27.2	0.46 05	11.1 59	44.90 6
10/0 9/20 23	05: 46: 06	1.8 14	20.54	21.2 3	8.4 2	8. 47	20.48	4.17	11.4 6	67.8 6	0.62 86	12.1 59	39.45 4
10/0 9/20 23	06: 01: 06	1.7 78	20.52 2	20.3 2	9.1 7	8. 51	15	3.3	12.1 7	40.4 3	0.88 42	13.0 88	55.39
10/0 9/20 23	06: 16: 06	1.7 51	20.57 7	20.1 4	9.6 7	8. 52	16.81	2.93	12.2	51.5 8	0.81 89	13.4 33	48.89 6
10/0 9/20 23	06: 31: 06	1.7 19	20.56 8	19.5	9.7 7	8. 53	16.63	4.22	12.9 4	44.8 1	0.86 22	13.6 95	53.95 1



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STREAM

10/0 9/20 23	06: 46: 06	1.6 84	20.54 6	18.9 3	9.4 1	8. 52	27.06	3.17	13.4 1	52.5 6	0.92 43	13.9 24	57.55 9
10/0 9/20 23	07: 01: 06	1.6 64	20.53 3	18.7 9	9.8 3	8. 54	20.01	3.51	13.6 3	61.1 4	0.97 81	13.7 67	52.28 2
10/0 9/20 23	07: 16: 06	1.6 35	20.57 7	18.6 3	9.7 6	8. 54	18.25	3.99	13.6 6	61.6	0.97 47	13.8 88	58.70 7
10/0 9/20 23	07: 31: 06	1.6 05	20.57	18.6 1	9.4 3	8. 52	27.15	18.98	12.7 6	100. 6	1.00 16	13.6 21	63.21 2
10/0 9/20 23	07: 46: 06	1.5 96	20.59 3	19.0 6	8.9 1	8. 5	18.73	3.46	13.0 9	56.6 9	1.02 45	12.8 3	88.91 8
10/0 9/20 23	08: 01: 06	1.5 86	20.58 3	18.9 9	9.2	8. 48	16.53	3.27	13.3 5	50.8 1	0.99 1	12.4 93	93.63 7
10/0 9/20 23	08: 16: 06	1.6 05	20.59 7	18.3 9	9.3 7	8. 51	21.12	3.18	13.9	66.5 1	1.05 19	14.4 32	95.91 9
10/0 9/20 23	08: 31: 06	1.6 28	20.57 9	17.7 3	9.3 8	8. 51	22.68	8.78	13.9 5	66.3 9	1.10 35	14.3 53	97.96 3
10/0 9/20 23	08: 46: 06	1.6 59	20.53	16.9 6	10. 01	8. 54	19.93	4.05	14.7 4	58.0 3	1.07 71	18.5 52	102.0 7
10/0 9/20 23	09: 01: 06	1.6 92	20.53 2	18.4 8	10. 09	8. 52	21.25	4.31	13.1 2	71.8 8	1.08 78	19.2 39	109.2 6
10/0 9/20 23	09: 16: 06	1.7 13	20.55 7	25.9 5	9.9	8. 45	12.26	2.89	7.66	37.0 2	0.86 35	19.0 15	131.0 1
10/0 9/20 23	09: 31: 06	1.7 5	20.62 6	26.2 4	10. 87	8. 53	16.13	3.39	7.16	39.8 8	0.31 52	16.2 16	126.9 1
10/0 9/20 23	09: 46: 06	1.7 88	20.59	27.6 8	11. 06	8. 55	16.12	3.39	5.67	47.6 9	0.22 34	13.9 85	95.20 7
10/0 9/20 23	10: 01: 06	1.8 29	20.54	27.6 5	10. 73	8. 52	18.14	4.15	5.49	49.4 6	0.13 67	13.0 47	80.01 2
10/0 9/20 23	10: 16: 06	1.8 71	20.51 2	27.2 4	10. 62	8. 53	13.47	2.84	5.97	44.6 9	0.13 81	11.1 27	60.16 7
10/0 9/20 23	10: 31: 06	1.9 14	20.51 6	27.4	10. 83	8. 53	24.64	2.78	5.83	59.6 6	0.18 89	11.9 79	54.62



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STREAM

10/0 9/20 23	10: 46: 06	1.9 57	20.55 8	26.1 3	10. 71	8. 55	22.22	3.09	6.81	59.4 8	0.18 91	10.8 51	44.49
10/0 9/20 23	11: 01: 06	2.0 08	20.56 3	26.2 5	10. 68	8. 54	16.57	2.88	7.12	46.1 5	0.25 5	10.9	41.03 5
10/0 9/20 23	11: 16: 06	2.0 47	20.53 1	26.9 7	10. 75	8. 52	18.79	3.68	6.29	51.0 8	0.33 92	11.3 69	49.14 5
10/0 9/20 23	11: 31: 06	2.0 83	20.55 2	26.8	10. 85	8. 52	18.46	3.07	6.46	41.3 6	0.22 46	12.1 26	41.82 5
10/0 9/20 23	11: 46: 06	2.1 32	20.52 2	27.3 2	10. 63	8. 51	16.27	3.01	6.01	46.8 9	0.22 52	11.7 26	48.19 4
10/0 9/20 23	12: 01: 06	2.1 66	20.57 8	26.9 1	10. 88	8. 52	14.4	3.26	6.52	46.1 4	0.20 7	12.2 06	55.31 3
10/0 9/20 23	12: 16: 06	2.2 17	20.63	26.4 4	11. 17	8. 54	17.23	3.19	6.85	43.2 7	0.26 2	11.6 26	85.21 8
10/0 9/20 23	12: 31: 06	2.2 45	20.57 7	27.1 8	10. 79	8. 51	15.9	3.03	6.42	35.9 5	0.29 27	13.1 23	76.93 1
10/0 9/20 23	12: 46: 06	2.2 93	20.58 9	27.3 4	10. 73	8. 5	20.79	2.95	6.28	49.7 8	0.26 82	11.7 44	77.14 1
10/0 9/20 23	13: 01: 06	2.3 17	20.54 6	28.0 2	10. 45	8. 48	17.15	3.46	5.58	47.2 6	0.24 33	12.2 96	79.29 5
10/0 9/20 23	13: 16: 06	2.3 64	20.52	28.5 2	10. 37	8. 47	13.98	3.48	5.23	33.4 8	0.18 74	11.9 1	55.25 3
10/0 9/20 23	13: 31: 06	2.3 79	20.69	25.9 6	11. 51	8. 58	21.91	3.13	7.22	59.5 6	0.24 3	12.0 21	69.51 9
10/0 9/20 23	13: 46: 06	2.4 1	20.59 4	27.3 3	11. 15	8. 55	15.56	2.95	6.11	46.3 6	0.30 41	13.6 63	48.07 1
10/0 9/20 23	14: 01: 06	2.4 25	20.43 6	29.1	10. 6	8. 49	17.01	3.17	4.61	44.5 4	0.18 9	12.9 34	42.52 7
10/0 9/20 23	14: 16: 06	2.4 49	20.43 3	29.0 9	10. 53	8. 5	8.32	3.11	4.41	29.0 3	0.06 9	11.7 42	48.71 4
10/0 9/20 23	14: 31: 06	2.4 61	20.41	29.1 3	9.9 8	8. 48	17.82	2.95	4.62	52.2	0.09 41	10.7 52	32.23 9



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STREAM

10/0 9/20 23	14: 46: 06	2.4 72	20.50 7	28.0 9	9.2 1	8. 47	11.73	2.42	5.39	60.6 5	0.10 42	11.3 31	41.85 6
10/0 9/20 23	15: 01: 06	2.4 89	20.55 9	27.7 7	8.8 5	8. 46	10.22	2.27	5.78	32.8 8	0.19 29	11.2 25	34.34 4
10/0 9/20 23	15: 16: 06	2.4 66	20.43 3	28.4 9	8.9 8	8. 42	9.91	2.78	4.88	26.0 3	0.17 81	11.5 88	34.77 6
10/0 9/20 23	15: 31: 06	2.4 61	20.40 8	28.5 7	8.7 4	8. 42	9.65	2.94	4.68	28.7	0.10 86	10.8 53	42.49 9
10/0 9/20 23	15: 46: 06	2.4 39	20.41 8	28.5 2	8.9 9	8. 43	13.94	3.33	4.56	41.2 2	0.10 52	11.1 2	46.58 7
10/0 9/20 23	16: 01: 06	2.4 31	20.44 8	28.5 6	8.6 9	8. 44	23.9	2.84	4.87	31.7	0.11 87	11.5 88	40.83 3
10/0 9/20 23	16: 31: 06	2.3 72	20.42 8	28.7 5	9.4 3	8. 45	12.32	2.21	4.92	35.7 1	0.13 29	10.9 84	53.65 9
10/0 9/20 23	16: 46: 06	2.3 26	20.44 9	28.4 9	8.3 5	8. 42	11.38	2.47	4.97	31.3 8	0.12 76	10.4 92	40.44 1
10/0 9/20 23	17: 01: 06	2.2 78	20.48 2	28.2 5	7.7	8. 4	9.15	3.54	5.02	34.9 8	0.15 17	11.1 06	36.75 9
10/0 9/20 23	17: 16: 06	2.2 42	20.51 5	27.7 3	7.9 4	8. 4	22.35	3.42	5.67	63.7 2	0.19 44	11.0 88	38.40 5
10/0 9/20 23	17: 31: 06	2.1 91	20.53 9	26.8 7	8.8 2	8. 44	11.19	2.85	6.42	32.1 9	0.22 72	12.2 83	44.04 6
10/0 9/20 23	17: 46: 06	2.1 39	20.57 1	25.8	9.1 7	8. 46	14.61	2.7	7.64	50.9	0.25 34	12.0 42	44.32 9
10/0 9/20 23	18: 01: 06	2.1 01	20.57 9	25.6 3	8.9 5	8. 48	17.24	3.82	7.78	49.6 6	0.36 09	12.3 61	54.62 1
10/0 9/20 23	18: 16: 06	2.0 47	20.59 1	25.2 1	9.2 4	8. 48	14.97	2.77	8.02	39.3 2	0.35 64	12.6 13	49.06 1
10/0 9/20 23	18: 31: 06	2.0 03	20.60 7	24.5 4	9.5 1	8. 49	32.41	3.09	8.52	88.7 1	0.40 7	12.8 29	40.07 1
10/0 9/20 23	18: 46: 06	1.9 46	20.60 9	24.0 1	9.3 7	8. 49	18.32	2.74	8.88	47.7 2	0.45 17	13.5 22	53.13 6



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STREAM

10/09/23	19:06	1.898	20.598	23.44	9.59	8.51	17.69	3.31	9.32	53.13	0.4978	13.241	52.383
10/09/23	19:06	1.862	20.621	22.66	9.88	8.52	26.49	2.85	10.07	90.19	0.5423	14.603	51.693
10/09/23	19:06	1.819	20.635	22.21	9.76	8.52	26.71	3.27	10.55	101.68	0.5998	15.193	57.612
10/09/23	19:06	1.785	20.622	22.1	8.76	8.5	22.89	2.98	10.81	56.79	0.6266	14.681	40.48
10/09/23	20:06	1.759	20.624	22.04	8.61	8.48	15.99	4.41	10.51	48.68	0.6663	13.875	59.309
10/09/23	20:06	1.719	20.634	21.92	8.34	8.49	16.62	2.87	10.56	49.89	0.6898	13.612	75.59
10/09/23	20:06	1.703	20.638	21.65	9.39	8.49	16.75	2.79	10.94	52.09	0.7038	13.405	54.109
10/09/23	20:06	1.69	20.623	21.72	8.53	8.46	23.01	3.05	10.67	57.57	0.6852	13.759	57.402
10/09/23	21:06	1.689	20.61	22.34	9.23	8.48	21.17	3.31	10.29	76.49	0.6924	14.193	62.227
10/09/23	21:06	1.68	20.606	21.36	8.4	8.45	23.6	2.64	11.16	65.4	0.6061	13.72	77.075
10/09/23	21:06	1.699	20.608	20.9	8.57	8.45	20.85	2.62	11.57	61.37	0.776	13.547	122.54
10/09/23	21:06	1.713	20.614	20.81	7.53	8.43	15.66	2.55	11.46	49	0.7363	15.929	71.685
10/09/23	22:06	1.754	20.585	20.3	8.78	8.46	19.1	2.99	12.07	59.82	0.794	15.76	82.305
10/09/23	22:06	1.777	20.359	26.87	9.47	8.42	30.29	3.83	5.88	108.34	0.8076	16.331	81.804
10/09/23	22:06	1.804	20.268	28.01	9.46	8.41	14.48	3.84	5.08	43.66	0.1928	12.718	63.713
10/09/23	22:06	1.842	20.215	28.43	9.37	8.4	14.12	3.47	4.47	58.88	0.112	12.151	66.642



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STREAM

10/09/23	23:06	1.872	20.204	28.38	9.31	8.4	24.23	3.8	5.12	77.86	0.1118	10.106	86.614
10/09/23	23:06	1.906	20.205	28.43	9.16	8.39	15.34	4.59	5.04	51.04	0.1155	11.887	80.767
10/09/23	23:06	1.929	20.212	28.22	9.03	8.39	13.81	6.15	5.54	44.84	0.1085	11.711	72.465
10/09/23	23:06	1.963	20.18	27.72	9.02	8.4	15.81	2.72	5.03	41.36	0.1822	12.281	129.56
11/09/23	00:06	1.992	20.185	27.58	9	8.4	14.43	2.79	5.53	40.22	0.1893	12.765	171.81
11/09/23	00:16	2.03	20.145	27.82	8.64	8.38	11.52	3.11	5.05	30.51	0.2128	12.05	173.12
11/09/23	00:31	2.063	20.138	27.84	8.83	8.38	11.79	3.36	5.04	41.77	0.2044	12.409	160.53
11/09/23	00:46	2.093	19.966	28.95	8.78	8.36	13.46	3	4.01	60.17	0.2109	12.077	154.64
11/09/23	01:01	2.12	20.099	28.08	8.65	8.37	8.47	2.99	4.99	28.96	0.1316	9.4034	131.02
11/09/23	01:16	2.155	20.151	27.5	9.06	8.4	23.22	2.67	5.31	57.02	0.2092	9.8488	142.16
11/09/23	01:31	2.182	19.903	29.27	8.29	8.34	22.22	3.3	3.83	46.33	0.1731	12.232	126.43
11/09/23	01:46	2.209	19.94	28.98	8.43	8.34	13.13	2.94	4.25	35.79	0.1163	9.7857	155.71
11/09/23	02:01	2.237	19.946	29.01	8.15	8.33	14.67	2.58	4.08	46.57	0.1348	11.098	176.62
11/09/23	02:16	2.257	20.072	28.12	8.48	8.37	13.45	3.07	5.2	45.18	0.135	9.3579	178.08
11/09/23	02:31	2.28	20.05	28.2	8.14	8.37	12.92	3.4	4.96	35.98	0.1986	11.091	213.47
11/09/23	02:46	2.275	20.083	27.75	7.77	8.38	8.84	2.41	5.36	26	0.139	14.392	199.75



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STREAM

11/09/23	03:06	2.297	20.008	28.44	7.13	8.31	10.41	2.57	4.6	37.67	0.1964	11.55	136.13
11/09/23	03:16:06	2.298	20.054	28.11	7.57	8.37	10.11	3.43	4.82	24.55	0.1957	9.6072	157.89
11/09/23	03:31:06	2.303	20.083	27.58	7.47	8.34	7.3	2.51	5.62	23.63	0.1521	11.027	149.93
11/09/23	03:46:06	2.288	19.977	28.69	7.64	8.31	9.23	2.45	4.4	25.02	0.2055	9.4992	143.86
11/09/23	04:01:06	2.286	19.942	29.05	6.46	8.29	6.24	2.88	3.89	49.62	0.1726	8.8965	157.38
11/09/23	04:16:06	2.256	19.899	29.28	7.47	8.31	8	2.67	3.78	24.09	0.1489	9.1655	147.79
11/09/23	04:31:06	2.251	19.963	28.84	6.26	8.28	7.06	2.78	4.29	76.15	0.1107	5.0443	221.48
11/09/23	04:46:06	2.208	19.914	29.2	6.66	8.28	9.51	2.91	3.97	26.09	0.1711	5.794	234.89
11/09/23	05:01:06	2.18	19.908	29.28	5.87	8.25	6.98	3.58	3.76	16.31	0.1251	5.7094	237.92
11/09/23	05:16:06	2.148	19.93	29.16	6	8.24	6.4	2.67	3.99	18.9	0.1436	8.8845	228.74
11/09/23	05:31:06	2.092	19.921	28.94	6.27	8.23	6.7	2.8	4.27	24.65	0.1588	7.7411	211.89
11/09/23	05:46:06	2.066	20.013	25.75	7.18	8.33	10.7	2.36	7.56	34.27	0.1922	7.2323	240.98
11/09/23	06:01:06	2.009	19.934	27.66	6.98	8.28	8.22	3.12	5.37	30.88	0.4068	10.314	272.61
11/09/23	06:16:06	1.967	19.984	25.47	7.31	8.32	8.56	2.42	7.72	23.49	0.2646	9.7825	245.54
11/09/23	06:31:06	1.916	20.005	24.05	7.21	8.33	6.38	2.61	8.84	21.18	0.4771	10.729	234.01
11/09/23	06:46:06	1.867	20.021	22.94	7.42	8.34	9.53	2.9	9.75	38.26	0.566	9.8325	206.17





STREAM

11/09/23	07:06	1.819	20.009	23.17	7.39	8.34	8.99	2.65	9.58	21.84	0.6257	9.5355	290.29
11/09/23	07:16:06	1.778	20.025	21.98	7.62	8.35	9.72	2.52	10.2	23.93	0.6284	7.7287	270.37
11/09/23	07:31:06	1.731	20.029	21.65	7.43	8.36	7.95	2.52	10.43	23.6	0.691	8.5898	262.36
11/09/23	07:46:06	1.692	20.031	21.42	7.14	8.35	8.64	2.32	10.54	25.73	0.7118	7.9724	261.31
11/09/23	08:01:06	1.656	20.04	21.2	7.14	8.35	12.89	2.34	10.58	25.7	0.6928	10.197	340.95
11/09/23	08:16:06	1.615	20.073	21.17	7.69	8.36	14.76	4.56	10.66	48.71	0.7256	11.084	313.05
11/09/23	08:31:06	1.584	20.084	20.84	7.27	8.34	9.29	2.81	10.68	29.2	0.6676	11.769	325.31
11/09/23	08:46:06	1.551	20.106	20.82	6.99	8.34	9.88	3.52	10.63	26.58	0.6824	15.9	307.8
11/09/23	09:01:06	1.526	20.144	20.71	7.32	8.35	8.63	3.49	10.82	28.4	0.6761	29.554	305.85
11/09/23	09:16:06	1.502	20.182	20.71	7.4	8.36	10.04	2.98	10.97	26.69	NA	30.951	474.77
11/09/23	09:31:06	1.489	20.211	20.43	7.68	8.36	11.62	2.92	11.21	32.7	0.6354	5.7265	390.8
11/09/23	09:46:06	1.493	20.225	19.94	7.84	8.37	9.05	3.94	11.09	32.14	0.7751	5.5614	262.74
11/09/23	10:01:06	1.509	20.239	19.61	7.3	8.36	8.15	4.83	11.31	24.59	0.8086	4.5943	273.82
11/09/23	10:16:06	1.53	20.276	19.08	7.72	8.38	13.67	3.49	11.89	46.14	0.8021	6.1598	294.28
11/09/23	10:31:06	1.562	20.307	19.01	8.6	8.41	12.8	3.06	12.37	44.08	0.8688	5.6049	296.55
11/09/23	10:46:06	1.588	20.135	23.75	8.07	8.34	6.95	3.15	7.74	19.9	NA	28.974	542.65



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STREAM

11/09/23	11:01:06	1.624	20.023	26.31	8.25	8.35	12.12	6.69	6.13	20.91	0.2177	6.1902	445.66
11/09/23	11:16:06	1.676	20.059	26.42	8.47	8.35	41.86	3.93	6.06	62.4	NA	43.221	598.39
11/09/23	11:31:06	1.72	20.023	27.26	8.51	8.35	7.48	4.62	5.27	21.53	NA	41.961	590.08
11/09/23	11:46:06	1.772	20.011	27.49	8.44	8.34	9.23	4.09	5.23	26.27	NA	44.683	628.47
11/09/23	12:01:06	1.824	20.131	26.42	8.76	8.37	9.13	3.21	6.42	25.53	NA	56.881	705.65
11/09/23	12:16:06	1.879	20.13	25.93	8.77	8.36	12.92	3.2	6.65	45.9	NA	46.974	674
11/09/23	12:31:06	1.944	20.118	25.91	8.79	8.37	8.76	4.47	6.76	41.54	NA	59.551	742.03
11/09/23	12:46:06	2	20.109	26.31	8.89	8.36	13.55	3.33	6.41	45.4	NA	68.359	859.37
11/09/23	13:01:06	2.071	20.131	26.28	9.03	8.37	8.13	3.79	6.39	44.75	NA	54.519	915.31
11/09/23	13:16:06	2.127	20.16	26.62	9.03	8.36	9.54	4.2	6.02	24.53	NA	10.832	914.23
11/09/23	13:31:06	2.186	20.197	26.44	9.08	8.37	15.7	3.47	6.29	38.83	NA	NAN	1004
11/09/23	13:46:06	2.245	20.182	26.74	9.05	8.37	11.68	4.44	5.82	30.24	NA	30.163	917.34
11/09/23	14:01:06	2.301	20.15	27.02	9.35	8.39	9.39	5.8	5.43	27.54	0.2898	9.0791	107.2
11/09/23	14:16:06	2.357	20.189	27.14	9.45	8.4	18.07	4.56	5.79	61.78	0.2484	9.7232	121.48
11/09/23	14:31:06	2.411	20.133	27.45	9.5	8.4	9.85	3.53	5.22	36.31	0.2264	8.2838	151.39
11/09/23	14:46:06	2.448	20.13	27.36	9.63	8.42	10.03	3.64	5.4	28.32	0.2131	6.2176	163.08



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STREAM

11/0 9/20 23	15: 01: 06	2.4 94	20.10 3	27.7 3	9.3 9	8. 39	8.59	3.32	5.2	33.8 8	0.24	7.18 31	141.0 7
11/0 9/20 23	15: 16: 06	2.5 17	20.10 9	27.2	9.6 6	8. 43	13.21	2.49	5.33	54.4 9	0.19 74	8.96 13	129.9
11/0 9/20 23	15: 31: 06	2.5 46	20.12	27.1 8	9.7 1	8. 43	12.43	2.08	5.41	26.2 8	0.21 66	9.07 5	104.1 3
11/0 9/20 23	15: 46: 06	2.5 6	20.10 5	27.0 8	9.7 2	8. 44	10.48	2.47	5.43	28.6 4	0.23 2	9.50 49	108.8 8
11/0 9/20 23	16: 01: 06	2.5 68	20.06 2	27.1 4	9.4 8	8. 43	9.84	2.16	5.29	28.1 9	0.23 94	9.04 38	107
11/0 9/20 23	16: 16: 06	2.5 84	20.07 6	27.1	8.7 4	8. 42	9.31	2.45	5.4	26.1 6	0.25 31	8.15 05	114.5 3
11/0 9/20 23	16: 31: 06	2.5 82	19.97 6	27.7 7	8.4 8	8. 38	8.5	3.17	4.63	22.9 8	0.24 92	9.10 86	102.6 9
11/0 9/20 23	16: 46: 06	2.5 6	19.91 6	28.2	8.4 2	8. 37	7.52	2.98	4.32	21.7 8	0.20 63	7.97 5	95.68 4
11/0 9/20 23	17: 01: 06	2.5 29	19.89	28.1 4	8.1 4	8. 35	22.51	6.75	4.23	59.2 5	0.15 55	8.25 11	91.57 2
11/0 9/20 23	17: 16: 06	2.4 88	19.91 8	28.0 8	7.2	8. 32	7.54	2.4	4.35	23.6 1	0.15 02	8.01 09	100.1
11/0 9/20 23	17: 31: 06	2.4 39	19.98	27.5 9	7.7 7	8. 34	7.71	2.56	4.75	20.2 4	0.20 34	7.88 8	92.85 7
11/0 9/20 23	17: 46: 06	2.3 93	20.04	26.9 7	7.8 2	8. 34	7.32	2.05	5.42	20.6 7	0.21 14	7.91 02	94.65 9
11/0 9/20 23	18: 01: 06	2.3 43	20.05 3	26.7 7	7.7 5	8. 34	6.56	2.16	5.41	20.2 5	0.26 37	8.14 61	93.73 7
11/0 9/20 23	18: 16: 06	2.2 86	20.07 3	26.4	7.7 7	8. 36	9.16	2.42	5.76	21.9 1	0.25 84	8.56 64	92.65 4
11/0 9/20 23	18: 31: 06	2.2 25	20.06 1	25.8 3	8.6 9	8. 39	7.62	2.8	6.22	26.3	0.28 97	8.85 76	97.53 6
11/0 9/20 23	18: 46: 06	2.1 64	20.06	25.8 8	8.8 4	8. 4	11.82	3.2	6.02	30.7 8	0.30 81	9.10 44	111.7



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STREAM

11/09/23	19:06	2.107	20.057	25.86	8.44	8.38	11.43	2.65	6.11	44.3	0.2971	10.397	134.25
11/09/23	19:16:06	2.046	20.07	24.93	8.71	8.4	14.41	3.54	6.99	35.77	0.3194	10.902	155.97
11/09/23	19:31:06	1.988	20.071	23.81	8.71	8.4	12.49	2.59	7.8	33.8	0.4108	8.0579	170.76
11/09/23	19:46:06	1.935	20.079	23.22	8.83	8.44	14.06	2.71	8.15	51.79	0.5305	9.7755	180.69
11/09/23	20:01:06	1.879	20.083	23.14	8.58	8.43	14.25	2.89	8.31	44.41	0.5271	9.9938	185.88
11/09/23	20:16:06	1.83	20.077	22.97	8.5	8.42	19.37	2.94	8.42	83.09	0.5296	9.617	187.84
11/09/23	20:31:06	1.781	20.076	22.85	8.33	8.41	11.69	3	8.6	33.69	0.5619	9.775	192.52
11/09/23	20:46:06	1.733	20.082	22.44	8.48	8.4	11.46	2.57	8.75	36	0.5322	11.32	222.81
11/09/23	21:01:06	1.69	20.09	21.89	8.52	8.4	16.03	3.19	8.93	40.01	0.5701	13.988	123.27
11/09/23	21:16:06	1.653	20.099	21.84	8.44	8.41	13.52	2.74	9.26	32.43	0.5811	16.045	136.87
11/09/23	21:31:06	1.616	20.103	22.55	8.3	8.4	14.86	2.93	9.45	39.19	0.5748	14.105	130.11
11/09/23	21:46:06	1.589	20.11	22.21	8.23	8.4	11.39	2.82	9.42	29.42	0.6353	16.039	161.01
11/09/23	22:01:06	1.564	20.118	22.09	7.54	8.39	10.21	3.55	9.47	35.41	0.6565	15.465	171.29
11/09/23	22:16:06	1.547	20.139	22.46	7.77	8.38	11.25	2.92	9.54	45.66	0.701	17.23	161.34
11/09/23	22:31:06	1.54	20.121	22.06	7.3	8.35	20.14	2.9	9.93	76.84	0.6608	16.136	172.03
11/09/23	22:46:06	1.558	20.107	21.6	7.13	8.34	12.04	3.36	10.17	33.05	0.7212	15.836	192



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**STREAM**

11/0 9/20 23	23: 01: 06	1.5 78 8	20.08 8	21.3	7.7 4	8. 36	9.8	2.78	10.4 6	34.6 7	0.75 74	18.0 75	201.0 8
11/0 9/20 23	23: 16: 06	1.6 04	20.02 7	21.3 1	7.9 8	8. 38	13.56	2.85	10.5 4	61.8 6	0.80 09	18.5 27	197.8 6
11/0 9/20 23	23: 31: 06	1.6 41	19.84 9	25.6 1	8.3 5	8. 34	11.69	4.38	6.61	34.5 3	0.79 83	18.4 27	213.1
11/0 9/20 23	23: 46: 06	1.6 74	19.81 7	25.7 6	8.2 7	8. 35	18.65	3.26	6.52	56.2 7	0.35 54	16.0 86	204.9 8
12/0 9/20 23	00: 01: 06	1.7 21	19.85 8	25.1 9	8.3 1	8. 36	22.34	3.69	7.11	57.2 7	0.33 85	15.1 53	230.6 4
12/0 9/20 23	00: 16: 06	1.7 67	19.86 2	25.1 4	8.2 1	8. 35	12.34	2.96	7.27	32.6 3	0.28 8	15.6 67	306.5 3
12/0 9/20 23	00: 31: 06	1.8 12	19.89 5	25.3 2	8.2 9	8. 36	17.27	3.51	7.71	48.1 4	0.28 01	12.1 18	341.4 3
12/0 9/20 23	00: 46: 06	1.8 6	19.81 7	25.6 2	8.2 5	8. 35	20.1	3.17	7.26	76.3 5	0.27 46	12.3 11	345.3 7
12/0 9/20 23	01: 01: 06	1.9 08	19.78 6	25.6 7	8.1 4	8. 34	13	3.58	7.08	40.7 4	0.43 92	11.9 11	297.4 2
12/0 9/20 23	01: 16: 06	1.9 57	19.71 7	25.5 4	8.1 1	8. 34	10.39	3.75	7.14	33.7 3	0.23 59	13.7 37	376.8 1
12/0 9/20 23	01: 31: 06	2.0 1	19.67 6	26.0 2	7.9 5	8. 32	8.57	3.53	6.71	32.2 9	0.25 76	6.65 42	347.2 6
12/0 9/20 23	01: 46: 06	2.0 55	19.65	25.9 5	7.9 9	8. 32	13.03	3.7	6.58	37.4	0.28 23	3.50 79	332.2 9
12/0 9/20 23	02: 01: 06	2.1 03	19.61 2	26.1 7	7.9 6	8. 32	11.19	4.04	6.3	28.9 4	0.22 46	4.67 34	350.6 1
12/0 9/20 23	02: 16: 06	2.1 51	19.56 5	26.4 4	7.6 8	8. 31	9.84	3.46	6.03	28.0 4	0.27 45	7.52 72	271.5 3
12/0 9/20 23	02: 31: 06	2.1 96	19.51 5	26.9 4	7.7 5	8. 3	17.76	4.39	5.84	45.6 6	0.31 63	7.63 07	254.0 3
12/0 9/20 23	02: 46: 06	2.2 48	19.45 9	27.1 6	7.7 4	8. 29	10.13	4.81	5.53	27.8 1	0.23 59	5.66 85	244.4



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STREAM

12/09/23	03:06	2.295	19.41	27.4	7.7	8.29	9.59	3.51	5.35	31.64	0.176	5.8401	250.62
12/09/23	03:16:06	2.338	19.398	28.15	7.56	8.28	9.84	4.99	5.21	31.96	0.1543	7.7811	268.28
12/09/23	03:31:06	2.367	19.267	28.6	7.58	8.29	8.54	4.06	4.85	28.98	0.2185	13.005	165.72
12/09/23	03:46:06	2.403	19.27	28.67	7.46	8.29	11.58	2.98	4.99	33.29	0.1724	11.578	173.49
12/09/23	04:01:06	2.41	19.286	27.93	7.23	8.27	7.31	2.88	5.54	22.3	0.1626	12.281	190.09
12/09/23	04:16:06	2.432	19.236	27.01	7.1	8.29	11.04	2.65	6.44	35.78	0.3133	8.6508	244.19
12/09/23	04:31:06	2.428	19.292	28.5	6.41	8.24	7.02	3.19	5.04	23.22	0.3727	9.9113	233.73
12/09/23	04:46:06	2.429	19.307	28.58	6.4	8.25	6.75	2.93	5.01	22.24	0.2612	9.2808	246.61
12/09/23	05:01:06	2.415	19.275	28.44	6.58	8.27	12.51	3.26	5.02	21.55	0.253	12.871	176.52
12/09/23	05:16:06	2.37	19.281	28.8	6.27	8.24	6.29	3.5	4.82	23.28	0.2138	11.623	179.85
12/09/23	05:31:06	2.333	19.248	28.78	6.12	8.23	10.18	5.92	4.82	33.54	0.2123	13.099	204.17
12/09/23	05:46:06	2.293	19.248	28.14	6.11	8.25	7.35	2.55	5.64	44.51	0.2185	12.083	227.03
12/09/23	06:01:06	2.247	19.166	27.1	6.05	8.24	7.48	3.38	6.71	37.06	0.3428	11.532	199.63
12/09/23	06:16:06	2.194	19.186	26.57	6.46	8.25	8.97	3.12	6.83	24.52	0.3755	12.853	203.6
12/09/23	06:31:06	2.143	19.135	26.32	6.64	8.26	8.47	3.15	7.21	28.98	0.4045	11.69	212.1
12/09/23	06:46:06	2.085	19.126	25.87	6.96	8.27	6.5	3.11	7.6	23.18	0.4629	15.171	242.44



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STREAM

12/09/23	07:06	2.029	19.176	25.4	7.25	8.3	8.3	3.96	7.58	25.7	0.3803	13.515	73.722
12/09/23	07:16:06	1.973	19.111	24.53	7.36	8.32	8.04	3.62	8.64	23.68	0.4889	10.235	101.8
12/09/23	07:31:06	1.917	19.039	23.7	7.5	8.32	10.13	3.32	8.88	30.96	0.5349	11.561	79.126
12/09/23	07:46:06	1.865	19.024	23.6	7.19	8.31	6.47	3.19	9.32	44.5	0.5743	14.319	59.578
12/09/23	08:01:06	1.809	18.974	23.24	7.17	8.31	6.8	3.59	9.61	29.86	0.6047	13.417	93.758
12/09/23	08:16:06	1.757	18.985	22.73	7.41	8.32	7.52	3.77	9.12	21.75	0.5749	16.913	81.057
12/09/23	08:46:06	1.659	19.027	22.71	7.42	8.32	11.96	3.93	9.41	36.69	0.6278	12.872	112.73
12/09/23	09:01:06	1.613	19.075	22.49	7.36	8.32	9.54	3.53	9.38	25.39	0.6602	14.48	108.15
12/09/23	09:16:06	1.572	19.134	22.21	7.36	8.32	7.35	3.18	9.74	20.02	0.6747	13.386	111.04
12/09/23	09:31:06	1.535	19.195	21.96	7.64	8.33	7.33	3.61	10.1	22.32	0.713	13.508	139.69
12/09/23	09:46:06	1.497	19.245	21.97	7.52	8.34	6.57	3.05	10.03	21.85	0.7336	13.934	123.15
12/09/23	10:01:06	1.466	19.292	21.6	7.73	8.34	9.38	4.33	10.14	29.85	0.7489	13.399	100.89
12/09/23	10:16:06	1.437	19.334	21.33	7.66	8.34	13.14	3.25	10.43	37.88	0.7677	13.013	108.05
12/09/23	10:31:06	1.413	19.381	20.91	7.58	8.36	19.05	3.47	10.56	29.1	0.7804	14.417	109.27
12/09/23	10:46:06	1.394	19.405	20.75	7.31	8.34	8.69	3.36	10.6	25.17	0.809	13.977	123.29
12/09/23	11:01:06	1.391	19.429	20.65	6.78	8.31	6.07	4.67	10.5	17.37	0.8363	14.03	133.6



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STREAM

12/09/23	11:16:06	1.403	19.484	20.4	7.38	8.32	6.68	3.83	10.95	19.98	0.8215	13.903	197.43
12/09/23	11:31:06	1.42	19.528	19.87	7.28	8.32	6.31	2.93	10.84	20.2	0.915	19.293	193.17
12/09/23	11:46:06	1.445	19.569	19.5	7.86	8.36	10.4	3.6	11.53	43.56	0.9701	13.887	195.34
12/09/23	12:01:06	1.484	19.455	21.05	7.97	8.34	7.57	2.62	10.04	25.38	1.0269	16.865	241.54
12/09/23	12:16:06	1.52	19.285	22.71	7.82	8.33	7.46	3.58	9.09	21.05	0.8441	17.756	202.72
12/09/23	12:31:06	1.569	19.318	22.57	7.91	8.34	7.41	3.32	9.54	21.74	0.7065	19.065	219.06
12/09/23	12:46:06	1.62	19.39	22.06	8.11	8.35	13.27	9.96	9.57	36.81	0.672	20.378	202.53
12/09/23	13:01:06	1.674	19.397	22.55	8.58	8.37	9.83	3.74	9.29	26.31	0.6932	18.766	161.67
12/09/23	13:16:06	1.737	19.396	23.44	8.81	8.38	8.58	3.95	8.55	26.15	0.6282	16.081	109.87
12/09/23	13:31:06	1.806	19.4	23.54	8.92	8.39	8.2	4.41	8.5	22.38	0.5823	15.007	124.49
12/09/23	13:46:06	1.891	19.416	23.57	9.07	8.4	12.86	5.42	8.26	42.3	0.5784	16.47	132.06
12/09/23	14:01:06	1.962	19.47	23.13	9.25	8.41	10.39	5.66	8.91	35.73	0.5224	15.631	109.77
12/09/23	14:16:06	2.041	19.453	23.57	9.42	8.42	9.47	5.7	8.55	24.19	0.6467	12.991	176.99
12/09/23	14:31:06	2.117	19.384	25.3	9.82	8.43	9.21	10.01	6.95	27.96	0.6914	12.622	236.12
12/09/23	14:46:06	2.199	19.347	26.03	9.85	8.43	11.5	8.5	6.27	27.5	0.3581	23.522	366.09
12/09/23	15:01:06	2.268	19.362	25.62	9.79	8.44	10.69	8.12	6.59	35.19	0.2782	28.264	283.17



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STREAM

12/09/23	15:06	2.358	19.393	25.47	9.77	8.44	20.04	5.24	7.04	30.59	0.3803	14.715	72.974
12/09/23	15:31:06	2.42	19.255	26.99	9.66	8.43	8.8	7.26	5.85	23.68	0.3606	12.597	47.373
12/09/23	15:46:06	2.487	19.224	27.35	9.62	8.43	11.39	9.75	6.61	40.56	0.2748	11.918	47.381
12/09/23	16:01:06	2.548	19.199	27.54	9.56	8.43	10.36	6.77	5.27	30.13	0.2314	11.452	55.661
12/09/23	16:16:06	2.596	19.143	27.55	9.58	8.43	9.33	5.39	6.23	56.66	0.2086	11.465	48.544
12/09/23	16:31:06	2.641	19.066	27.8	9.48	8.42	10.14	6.42	5.75	26.14	0.2231	11.437	51.853
12/09/23	16:46:06	2.668	19.029	28.16	9.3	8.42	9.51	4.43	5.35	27.45	0.1785	12.141	67.681
12/09/23	17:01:06	2.68	19.065	28.24	9.1	8.4	7.51	3.66	5.31	20.84	0.1636	12.074	83.963
12/09/23	17:16:06	2.691	19.011	28.56	8.41	8.39	6.61	4.25	5.14	21.13	0.1449	11.693	95.399
12/09/23	17:31:06	2.664	19.008	28.46	7.73	8.38	7.34	4.42	4.97	15.6	0.1518	10.803	84.373
12/09/23	17:46:06	2.632	18.999	28.65	7.89	8.36	15.91	3.06	4.39	25.5	0.1628	11.072	93.087
12/09/23	18:01:06	2.586	19.035	28.77	7.98	8.37	5.96	3.9	4.72	19.7	0.1579	10.946	87.396
12/09/23	18:16:06	2.533	19.052	28.29	7.96	8.36	6.09	4.08	5.56	16.04	0.1572	10.564	93.921
12/09/23	18:31:06	2.488	19.034	27.36	8.11	8.36	11.09	4.27	5.85	27.51	0.2247	10.306	103.95
12/09/23	18:46:06	2.43	19.123	27.09	8.55	8.39	12.17	4.3	6.35	42.01	0.3417	10.782	115.62
12/09/23	19:01:06	2.377	19.08	26.53	8.71	8.4	10.19	3.84	6.68	21.93	0.2775	15.354	133.71



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STREAM

12/09/23	19:06	2.316	19.105	26.28	8.71	8.41	11.01	3.5	6.27	43.02	0.2512	17.88	169.32
12/09/23	19:06	2.25	19.111	26.06	8.32	8.39	8.33	3.64	6.7	24.77	0.2889	15.697	168.74
12/09/23	19:06	2.173	19.09	25.83	8.37	8.39	9.28	3.57	7.04	35.73	0.3486	13.5	182.84
12/09/23	20:06	2.105	19.119	25.55	8.47	8.41	12.21	5.11	7.2	32.29	0.3887	13.489	183.13
12/09/23	20:06	2.043	19.094	25.39	8.32	8.38	9.03	4.3	7.59	32.19	0.4071	10.862	179.19
12/09/23	20:06	1.984	19.089	24.93	8.35	8.39	10.92	4.8	7.36	32.06	0.4626	11.885	102.24
12/09/23	20:06	1.93	19.086	24.51	8.22	8.39	16.15	4.65	7.91	57.79	0.497	11.779	195.5
12/09/23	21:06	1.877	19.071	24.07	8.66	8.41	10.87	4.93	8.27	30.32	0.5123	14.006	165.14
12/09/23	21:06	1.821	19.069	23.76	8.54	8.44	13.39	4.3	8.53	42.79	0.5782	13.345	186.11
12/09/23	21:06	1.767	19.056	23.57	8.41	8.44	9.74	4.23	8.98	29.87	0.5975	15.15	217
12/09/23	21:06	1.723	19.069	23.25	8.42	8.39	10.91	5.15	8.66	32.66	0.5509	16.166	198.86
12/09/23	22:06	1.676	19.059	23.01	8.35	8.39	11.51	3.86	10.01	49.19	0.5257	18.035	196.85
12/09/23	22:06	1.635	19.088	22.73	8.43	8.44	24.86	4.07	9.85	61.98	0.6659	10.606	154.34
12/09/23	22:06	1.597	19.145	22.16	8.38	8.39	15.77	4.5	10.22	53.96	0.5915	16.472	110.63
12/09/23	22:06	1.562	19.162	21.93	8.42	8.39	17.4	3.84	10.79	49.89	0.7074	15.665	145.21
12/09/23	23:06	1.534	19.172	21.44	8.46	8.39	16.29	3.54	10.9	45.62	0.7625	13.028	138.55



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STREAM

12/0 9/20 23	23: 16: 06	1.5 13	19.17 3	21.1 8	8.2 8	8. 39	18.07	5.04	10.6 5	43.8 1	0.78 33	13.6 21	135.5 2
12/0 9/20 23	23: 31: 06	1.5 01	19.16	20.8 7	8.3 3	8. 39	21.51	4.44	10.6 2	46.2 4	0.88 88	12.1 18	178.2 3
12/0 9/20 23	23: 46: 06	1.4 95	19.14 4	20.7 6	7.8 8	8. 4	9.68	4.23	10.3 6	24.2	0.89 41	14.3 27	185.2 3
13/0 9/20 23	00: 01: 06	1.5 01	19.09 3	20.4 1	7.5 3	8. 34	11.78	3.95	11	35.6 8	0.80 26	16.0 38	130.4 8
13/0 9/20 23	00: 16: 06	1.5 16	19.01 2	20.1 7	7.9 6	8. 36	9.29	3.77	11.5 1	27.6 9	0.81 82	16.7 9	142.0 4
13/0 9/20 23	00: 31: 06	1.5 48	18.93 8	19.6 9	7.8 7	8. 37	17.24	3.27	12.1 3	65.1 9	0.92 02	16.0 48	195.9 7
13/0 9/20 23	00: 46: 06	1.5 72	19.07 1	22.7 3	8.4	8. 36	20.67	4.02	9.79	156. 45	0.94 92	17.7 67	177.7
13/0 9/20 23	01: 01: 06	1.6 07	18.97 6	23.6 8	8.2 9	8. 37	10.73	4.16	8.64	29.9 1	0.69 71	16.2 08	166.9 5
13/0 9/20 23	01: 16: 06	1.6 45	18.86 1	23.2 6	8.5 9	8. 39	15.02	4.6	9.09	44.0 2	0.50 93	15.9 36	91.35
13/0 9/20 23	01: 31: 06	1.6 93	18.92 5	22.8 7	8.5	8. 39	14.25	4.19	9.3	36.0 9	0.52 8	16.5 17	99.4
13/0 9/20 23	01: 46: 06	1.7 42	18.83 1	23.1 5	8.5 1	8. 38	30.29	3.88	9.23	71.5 4	0.60 87	17.4 75	112.4 1
13/0 9/20 23	02: 01: 06	1.7 9	18.72 6	23.2 6	8.4 4	8. 37	32.12	4.89	9.25	118. 31	0.61 89	16.4 61	140.7 6
13/0 9/20 23	02: 16: 06	1.8 44	18.71	24.5 4	8.2	8. 35	15.84	4.93	8.65	43.5 9	0.57 98	17.3 35	162.4 1
13/0 9/20 23	02: 31: 06	1.8 99	18.65 2	24.4 5	8.2 3	8. 35	19.38	4.34	8.81	43.4 5	0.49 96	19.1 54	314.1 6
13/0 9/20 23	02: 46: 06	1.9 57	18.66 2	24.4	8.1 6	8. 35	11.43	5.08	8.9	33.7 9	0.49 51	16.4 08	281.9 5
13/0 9/20 23	03: 01: 06	2.0 23	18.56 4	24.0 9	8.2 1	8. 35	16.22	4.63	9.14	42.9 8	0.37 69	16.2 75	456.1 9



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STREAM

13/09/23	03:16:06	2.076	18.429	25.02	8	8.33	10.31	4.43	8.13	52.09	NA	24.996	553.75
13/09/23	03:31:06	2.15	18.346	25.41	7.85	8.32	9.94	5.63	8.42	36.75	NA	26.937	573.58
13/09/23	03:46:06	2.199	18.175	24.54	7.97	8.34	31.29	4.19	8.97	96.61	NA	19.044	589.79
13/09/23	04:01:06	2.267	18.012	25.32	7.94	8.34	10.53	4.1	8.66	42.52	NA	47.507	571.2
13/09/23	04:16:06	2.313	17.973	25.9	7.88	8.33	10.88	3.87	8.3	33.68	NA	50.919	551.24
13/09/23	04:31:06	2.357	17.968	26.5	7.68	8.31	10.43	4.09	7.61	24.91	NA	49.105	563.2
13/09/23	04:46:06	2.396	17.992	27.36	7.47	8.29	10.32	3.88	7.23	28.55	NA	52.307	580.37
13/09/23	05:01:06	2.425	18.015	28.1	7.31	8.29	10.35	4.24	6.41	25.17	NA	46.802	599.29
13/09/23	05:16:06	2.442	17.996	27.89	6.97	8.29	8.21	3.5	6.75	23.8	NA	55.431	597.25
13/09/23	05:31:06	2.45	18	27.59	6.7	8.28	8.85	5.39	6.65	24.26	NA	45.502	625.07
13/09/23	05:46:06	2.447	18.003	27.34	6.22	8.27	7.15	4.7	7.02	20.65	NA	52.512	643.03
13/09/23	06:01:06	2.433	18.044	28.24	6.7	8.26	8.55	3.64	6.36	25.29	NA	42.084	616.13
13/09/23	06:16:06	2.392	18.036	27.88	6.72	8.27	10.12	4.16	6.75	24.17	NA	50.756	640.25
13/09/23	06:31:06	2.353	17.96	27.18	6.31	8.25	20.14	3.14	7.6	67.44	NA	57.91	633.77
13/09/23	06:46:06	2.294	17.907	27.14	6.06	8.26	6.47	3.27	8.3	16.31	0.1344	16.46	392.93
13/09/23	07:01:06	2.239	17.818	26.45	6.35	8.26	6.54	3.43	7.91	20.61	0.1583	15.837	386.28



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13/09/23	07:16:06	2.172	17.741	26.36	6.82	8.28	7.2	3.38	8.21	20.6	0.1908	17.252	390.53
13/09/23	07:31:06	2.122	17.763	26.13	7.11	8.3	6.89	3.89	8.14	19.3	0.3948	16.789	343.47
13/09/23	07:46:06	2.058	17.756	25.93	7.18	8.31	5.89	2.83	8.94	16.38	0.404	21.192	371.31
13/09/23	08:01:06	1.999	17.873	25.46	7.41	8.3	6.34	2.95	8.71	32.22	0.366	19.722	373.23
13/09/23	08:16:06	1.942	17.904	25.16	7.37	8.31	8.26	3.92	9.01	32.58	0.4648	22.136	352.11
13/09/23	08:31:06	1.878	17.905	24.58	7.57	8.32	6.66	3.19	9.39	31.51	0.4265	27.173	363.18
13/09/23	08:46:06	1.832	17.852	23.19	7.94	8.34	8.91	3.12	9.92	52.41	0.5565	21.403	191.24
13/09/23	09:01:06	1.771	17.89	22.8	7.86	8.35	7.17	3.01	10.5	20.75	0.6517	21.962	172.45
13/09/23	09:16:06	1.719	17.935	22.59	7.85	8.35	8.35	3.52	10.2	27.05	0.6785	21.829	171.46
13/09/23	09:31:06	1.672	18.013	22.22	8.08	8.35	11.04	3.29	10.69	35.16	0.6901	21.628	181.55
13/09/23	09:46:06	1.623	18.156	21.78	8.27	8.37	10.5	3.14	10.88	24.27	0.7461	21.41	177.01
13/09/23	10:01:06	1.576	18.243	21.58	8.04	8.38	12.5	3.18	10.72	35.66	0.7311	21.107	164.89
13/09/23	10:16:06	1.537	18.374	21.39	8.09	8.37	7.13	3.52	10.38	24.73	0.7271	20.92	160.38
13/09/23	10:31:06	1.498	18.489	21.18	8.24	8.37	14.95	3.69	10.79	55.65	0.7686	20.159	147.47
13/09/23	10:46:06	1.46	18.57	20.67	8.34	8.38	9.88	3.8	11.27	25.96	0.7938	21.463	143.6
13/09/23	11:01:06	1.422	18.609	20.3	7.94	8.37	8.47	3.54	10.91	51.84	0.8264	21.719	139.55



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STREAM

13/09/23	11:16:06	1.394	18.606	20.4	7.24	8.34	6.24	4.8	10.44	20.19	0.9439	18.835	217.83
13/09/23	11:31:06	1.372	18.652	20.25	6.83	8.32	6.99	4.09	10.41	21.23	0.9495	14.776	183.5
13/09/23	11:46:06	1.356	18.734	19.98	7.92	8.37	6.18	5.57	10.8	21.63	0.9646	16.295	160.09
13/09/23	12:01:06	1.349	18.797	19.46	8.43	8.38	10.73	4.1	11.12	29.86	0.956	17.294	148.64
13/09/23	12:16:06	1.362	18.819	19.33	8	8.38	8.53	3.75	11.25	19.39	0.9803	16.836	132.06
13/09/23	12:31:06	1.387	18.904	18.95	8.64	8.44	11.07	3.7	11.56	29.46	0.9873	17.055	118.09
13/09/23	12:46:06	1.423	18.919	18.86	9.02	8.4	11.15	8.78	11.15	58.81	1.0162	17.783	116.67
13/09/23	13:01:06	1.463	18.471	23.02	8.44	8.36	9.07	4.25	9.61	28.1	1.0029	18.148	97.187
13/09/23	13:16:06	1.512	18.462	22.95	8.43	8.36	9	10.63	9.15	30.05	0.6163	14.988	91.609
13/09/23	13:31:06	1.564	18.625	21.88	9.14	8.44	13.79	4.3	10.58	38.77	0.6058	14.686	90.728
13/09/23	13:46:06	1.627	18.675	22.14	9.6	8.43	14.95	5.96	9.6	40.18	0.7065	15.859	99.538
13/09/23	14:01:06	1.687	18.729	23.37	9.82	8.43	14.56	4.56	9.27	37.79	0.6667	14.695	121.85
13/09/23	14:16:06	1.762	18.701	23.13	9.74	8.43	18.64	4.72	9.72	35.44	0.5545	15.817	103.11
13/09/23	14:31:06	1.844	18.749	23.73	10.19	8.46	32.41	8.58	8.75	50.11	0.6126	11.857	157.67
13/09/23	14:46:06	1.925	18.806	24.34	10.8	8.49	16.05	8.38	8.25	37.23	0.4742	16.395	212.4
13/09/23	15:01:06	2	18.789	25.55	11.3	8.49	13.25	8.46	7.17	37.74	0.4697	15.071	81.462



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STREAM

13/09/23	15:06	2.089	18.699	26.4	11.33	8.49	12.38	9.12	6.28	57.35	0.437	12.983	81.984
13/09/23	15:06	2.169	18.716	26.7	11.29	8.49	13.43	9.88	6.08	27.4	0.3531	13.151	50.115
13/09/23	15:46:06	2.258	18.61	27.15	10.96	8.49	13.95	9.7	5.46	37.72	0.2886	13.507	51.344
13/09/23	16:01:06	2.339	18.383	27.71	10.5	8.46	14.26	10.59	5.44	27.63	0.2395	13.855	56.781
13/09/23	16:16:06	2.421	18.275	28	10.25	8.45	15.6	8.39	5.03	37.51	0.1782	14.048	50.603
13/09/23	16:31:06	2.492	18.231	28.08	10.09	8.45	21.09	7.29	6.48	51.26	0.1715	12.837	47.604
13/09/23	16:46:06	2.562	18.228	28.15	10.11	8.45	19.18	6.27	6.55	65.2	0.1613	12.963	49.641
13/09/23	17:01:06	2.617	18.194	28.14	10.08	8.46	14.66	5.27	6.53	36.43	0.1645	12.66	51.127
13/09/23	17:16:06	2.667	18.177	28.36	9.99	8.45	11.28	4.96	6.5	33.03	0.1574	12.934	48.712
13/09/23	17:31:06	2.697	18.152	28.45	9.81	8.44	13.59	4.13	6.41	38.49	0.1497	12.729	41.165
13/09/23	17:46:06	2.719	18.197	28.93	9.79	8.43	9.7	4.18	5.97	26.24	0.1185	13.238	44.813
13/09/23	18:01:06	2.721	18.09	29.28	9.41	8.42	13.52	5.31	5.17	50.04	0.0996	12.125	48.358
13/09/23	18:16:06	2.722	18.095	29.37	8.27	8.41	9.2	5.26	3.84	26.77	0.0807	12.152	49.013
13/09/23	18:31:06	2.679	18.078	29.17	8.79	8.4	10.03	4.19	3.89	25.88	0.0952	12.262	43.356
13/09/23	18:46:06	2.636	18.082	29.17	8.46	8.38	13.91	3.43	4.18	42.59	0.1011	12.106	44.55
13/09/23	19:01:06	2.575	18.152	28.82	8.41	8.37	8.5	3.11	4.44	29.25	0.1122	12.754	51.366



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STREAM

13/09/23	19:06	2.5	18.23	28.4	8.8	8.	9.78	3.67	4.84	33.9	0.13	11.7	51.94
13/09/23	16:06	12	5	3	4	4				6	98	72	3
13/09/23	19:06	2.4	18.25	28.0	8.9	8.	10.86	3.43	4.98	25.4	0.18	12.4	55.40
13/09/23	31:06	49	9	4	8	41				1	24	45	3
13/09/23	19:06	2.3	18.24	28.1	8.8	8.	11.65	3.91	5.1	34.1	0.19	13.1	46.04
13/09/23	46:06	77	2	7	9	41				7	57	77	1
13/09/23	20:06	2.3	18.23	28.0	8.8	8.	11.27	4.08	5.11	32.5	0.18	14.5	61.10
13/09/23	01:06	05	5	1	3	41				1	19	91	8
13/09/23	20:06	2.2	18.26	27.7	9.0	8.	13.22	6.44	5.72	36.8	0.17	14.1	67.15
13/09/23	16:06	28	8	3	4	42				5	39	31	
13/09/23	20:06	2.1	18.32	27.5	9.0	8.	16.76	4.23	5.32	49.0	0.23	12.7	45.30
13/09/23	31:06	49	2	8	7	43				1	42	8	4
13/09/23	20:06	2.0	18.34	27.4	9.1	8.	13.75	4.73	5.77	33.4	0.25	12.7	52.31
13/09/23	46:06	81	6	1	7	43				4	65	07	7
13/09/23	21:06	2.0	18.36	26.9	9.1	8.	27.44	4.13	5.77	71.8	0.27	13.2	61.03
13/09/23	01:06	12	7		7	43				4	68	69	7
13/09/23	21:06	1.9	18.38	26.8	9.1	8.	10.88	4.7	6.35	29.8	0.30	13.7	108.2
13/09/23	16:06	5	3	4	3	43				2	56	72	
13/09/23	21:06	1.8	18.39	26.4	9.1	8.	10.39	5.31	6.21	29.0	0.32	14.5	112.2
13/09/23	31:06	82	9	1	7	44				6	6	99	6
13/09/23	21:06	1.8	18.4	25.8	9.1	8.	16.74	4.93	6.63	44.9	0.35	14.3	99.19
13/09/23	46:06	21		1	9	44					37	17	2
13/09/23	22:06	1.7	18.40	25.3	9.0	8.	16.3	5.46	6.89	59.6	0.43	12.2	103.9
13/09/23	01:06	67	1	7	4	44					49	14	5
13/09/23	22:06	1.7	18.40	25.1	9.0	8.	14.47	4.26	6.98	38.8	0.44	12.2	103.4
13/09/23	16:06	16	5	1	6	43				2	13	35	6
13/09/23	22:06	1.6	18.41	24.8	8.9	8.	14	3.9	7.01	38.1	0.46	12.9	106.9
13/09/23	31:06	62		1	1	43				9	09	69	2
13/09/23	22:06	1.6	18.41	24.4	8.8	8.	17.23	4.83	7.93	47.9	0.49	12.7	109.6
13/09/23	46:06	17	7	4	6	43					68	41	1
13/09/23	23:06	1.5	18.43	23.8	8.9	8.	17.34	5.16	8.23	47.9	0.53	12.4	106.1
13/09/23	01:06	73	4	9	6	42				6	52	04	6





STREAM

13/09/23	23:06	1.537	18.446	23.28	8.91	8.43	15.33	5.36	8.62	48.49	0.6169	10.844	136.2
13/09/23	23:06	1.506	18.468	22.54	8.86	8.42	20.47	5.37	8.62	64.13	0.6137	12.772	129.56
13/09/23	23:06	1.494	18.482	22.38	8.66	8.42	12.61	4.67	9.19	36.3	0.6663	14.01	137.74
14/09/23	00:06	1.474	18.478	21.42	8.73	8.42	27.17	4.02	9.43	89.97	0.7305	12.98	148.22
14/09/23	00:06	1.466	18.473	20.96	8.25	8.42	19.16	4.47	9.44	63.6	0.8987	11.645	200.64
14/09/23	00:06	1.471	18.466	20.79	7.74	8.38	22.12	4.48	9.95	59.73	0.863	15.386	190.88
14/09/23	00:06	1.494	18.419	20.27	7.91	8.39	14.28	4.05	10.34	82.74	0.8691	14.673	169.44
14/09/23	01:06	1.528	18.368	20.51	8.44	8.44	22.81	4.43	10.19	63.29	0.8702	16.295	172.47
14/09/23	01:06	1.564	18.319	24.49	8.63	8.38	20.41	6.4	8.12	60.9	0.7897	14.508	156.45
14/09/23	01:06	1.612	18.244	24.92	8.68	8.39	12.59	5.82	7.76	56.87	0.5339	13.014	161.39
14/09/23	01:06	1.666	18.307	23.85	8.69	8.39	24.63	5.17	8.49	65.52	0.5384	10.045	197.2
14/09/23	02:06	1.726	18.306	22.91	8.77	8.44	19.25	7.6	8.97	42.48	0.611	13.197	160.07
14/09/23	02:06	1.709	18.245	24.11	8.56	8.39	16.07	5.98	8.2	63.03	0.6211	15.054	146.85
14/09/23	02:06	1.862	18.222	24.87	8.49	8.38	16.75	5.61	7.73	49.69	0.6082	13.62	163.86
14/09/23	02:06	1.937	18.198	24.98	8.43	8.37	11.1	8.86	7.2	43.69	0.4302	15.121	128.43
14/09/23	03:06	2.016	18.151	25.37	8.41	8.37	13.63	9.75	6.81	55.83	0.4247	16.403	146.47



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14/09/23	03:16:06	2.094	18.097	25.9	8.37	8.37	11.26	10.18	6.53	27.47	0.3708	15.245	103.87
14/09/23	03:31:06	2.172	18.056	26.24	8.26	8.36	11.98	11.27	6.13	82.05	0.3588	13.248	64.057
14/09/23	03:46:06	2.255	17.993	27.07	8.21	8.35	12.74	12.28	5.57	31.86	0.2743	14.205	67.586
14/09/23	04:01:06	2.345	17.955	27.22	8.18	8.35	9.65	13.03	5.28	33.59	0.2379	14.593	104.67
14/09/23	04:16:06	2.429	17.917	27.7	8.12	8.35	11.54	14.54	4.77	34.75	0.215	13.413	65.461
14/09/23	04:31:06	2.507	17.893	27.61	8.1	8.35	13.15	10.87	5.55	27.43	0.2062	12.102	54.21
14/09/23	04:46:06	2.577	17.854	27.73	8.03	8.34	10.64	9.74	5.3	33.36	0.22	12.699	56.556
14/09/23	05:01:06	2.638	17.802	28.32	7.91	8.33	10.91	8.5	5.62	27.82	0.186	12.565	55.539
14/09/23	05:16:06	2.682	17.775	28.49	7.9	8.34	9.82	6.9	5.52	28.18	0.133	12.931	116
14/09/23	05:31:06	2.726	17.746	28.74	7.83	8.33	7.86	7.12	4.76	23.08	0.1434	12.246	59.669
14/09/23	05:46:06	2.75	17.712	29	7.74	8.32	10.71	5.7	4.16	28.8	0.0954	13.05	68.482
14/09/23	06:01:06	2.769	17.687	28.99	7.65	8.32	13.77	6.09	4.37	56.66	0.1063	11.932	90.552
14/09/23	06:16:06	2.763	17.669	28.76	7.48	8.32	9.09	4.14	4.54	24.46	0.0537	13.238	75.908
14/09/23	06:31:06	2.738	17.68	28.98	7.04	8.32	10.05	4.65	4.31	31.58	0.0729	13.583	83.425
14/09/23	06:46:06	2.684	17.687	29.04	6.76	8.29	8.89	4.49	4.89	21.91	0.0824	13.642	113.48
14/09/23	07:01:06	2.623	17.698	28.58	6.72	8.28	6.8	4.43	4.71	24.73	0.0974	13.512	124.21



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STREAM

14/09/23	07:16:06	2.544	17.731	28.01	6.84	8.29	6.64	3.89	5.14	19.2	0.1471	14.177	112.66
14/09/23	07:31:06	2.472	17.752	27.94	6.64	8.3	6.92	4.12	4.75	18.38	0.1756	14.351	116.29
14/09/23	07:46:06	2.394	17.747	27.64	7.28	8.31	34.31	4.5	4.9	109.19	0.1501	14.374	107.11
14/09/23	08:01:06	2.32	17.761	27.7	7.39	8.32	8.1	4.03	5.16	42.15	0.174	14.602	117.54
14/09/23	08:16:06	2.247	17.811	27.06	7.51	8.33	7.52	4.72	6.13	23.42	0.2097	14.196	101.05
14/09/23	08:31:06	2.165	17.831	26.72	7.53	8.33	8.17	5.18	8.01	24.83	0.2776	12.458	105.34
14/09/23	08:46:06	2.093	17.85	26.39	7.52	8.33	8.17	5.65	8.71	25.04	0.3018	11.097	113.26
14/09/23	09:01:06	2.014	17.866	25.94	7.44	8.33	10.88	6.03	8.78	27.97	0.331	13.547	162.47
14/09/23	09:16:06	1.949	17.885	25.46	7.41	8.33	10.96	6.62	9.75	24.04	0.3383	14.437	144.16
14/09/23	09:31:06	1.875	17.909	25.32	7.41	8.33	8.23	5.43	10.26	27.16	0.3732	14.458	189.69
14/09/23	09:46:06	1.813	17.944	25.17	7.51	8.33	8.81	5	9.54	23.53	0.3837	14.803	175.91
14/09/23	10:01:06	1.751	17.998	24.55	7.58	8.34	7.07	6.26	9.76	19.34	0.4325	13.663	174.02
14/09/23	10:16:06	1.69	18.038	24.39	7.6	8.35	9.19	6.67	8.05	27.25	0.4695	13.881	171.46
14/09/23	10:31:06	1.633	18.085	24.19	7.77	8.35	9.36	6.02	7.99	30.79	0.4977	14.602	141.37
14/09/23	10:46:06	1.582	18.129	23.75	7.98	8.35	8.93	7.29	8.28	32.34	0.5217	14.098	164.93
14/09/23	11:01:06	1.533	18.194	22.93	8.3	8.37	11.81	6.4	8.64	37.07	0.5304	14.728	174.78



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STREAM

14/09/23	11:06	1.49	18.251	22.37	8.37	8.38	11.96	4.71	8.92	37.53	0.6252	15.576	167.99
14/09/23	11:06	1.451	18.31	21.85	8.38	8.39	10.31	5.01	9.44	44.9	0.7638	15.856	211.8
14/09/23	11:06	1.413	18.359	21.29	8.48	8.39	12.5	4.73	9.76	38.42	0.6904	20.908	157.15
14/09/23	12:06	1.38	18.422	20.69	8.68	8.4	12.54	5.21	9.66	39.04	0.6926	20.974	154.12
14/09/23	12:06	1.337	18.561	19.65	8.85	8.41	18.37	15.42	9.19	69.39	0.8783	19.643	162.19
14/09/23	12:06	1.323	18.531	19.97	8.13	8.41	12.33	6.81	9.59	37.86	0.9633	12.991	131.58
14/09/23	13:06	1.322	18.589	19.86	7.45	8.37	23.08	9.45	9.41	60.16	0.9952	10.726	165.02
14/09/23	13:06	1.357	18.719	19.15	8.29	8.4	11.84	6.39	10.29	37.66	1.0129	13.272	166.07
14/09/23	13:06	1.388	18.825	18.4	9.2	8.43	16.07	6.24	10.47	50.59	1.0249	13.908	180.11
14/09/23	13:06	1.425	18.389	21.97	8.53	8.38	8.46	6.6	8.84	25.85	1.0383	15.391	153.05
14/09/23	14:06	1.47	18.363	22.61	8.73	8.39	11	6.64	8.55	37.12	0.7124	13.734	158.25
14/09/23	14:06	1.528	18.433	21.57	9.14	8.41	27.68	6.64	8.68	59.36	0.633	13.443	185.22
14/09/23	14:06	1.586	18.416	23.47	9.19	8.41	16.03	6.59	7.63	71.05	0.764	12.071	150.79
14/09/23	14:06	1.649	18.459	24.47	9.93	8.44	17.39	6.25	6.58	102.46	0.5779	11.186	195.4
14/09/23	15:06	1.734	18.486	23.92	9.87	8.44	14.2	5.97	7.02	39.48	0.4654	15.716	232.43
14/09/23	15:06	1.818	18.49	24.19	10.05	8.45	13.07	7.31	7.65	44.43	0.5923	15.143	118.89





STREAM

14/09/23	15:31:06	1.904	18.473	24.73	10.29	8.46	18.41	7.96	7.07	52.47	0.4779	14.629	118.96
14/09/23	15:46:06	1.994	18.429	25.65	10.5	8.45	17.72	8.85	6.22	60.76	0.4729	10.862	171.42
14/09/23	16:01:06	2.079	18.352	27.17	10.66	8.45	16.32	9.96	5.38	36.71	0.3898	11.494	97.899
14/09/23	16:16:06	2.166	18.393	27.17	10.62	8.46	17.6	7.94	4.84	29.37	0.2484	13.519	65.8
14/09/23	16:31:06	2.269	18.294	28.23	10.64	8.45	15.28	9.54	4.23	44.21	0.2848	13.59	47.374
14/09/23	16:46:06	2.362	18.223	28.73	10.44	8.44	10.87	8.79	3.96	42.45	0.1695	13.71	51.403
14/09/23	17:01:06	2.445	18.215	28.89	10.35	8.43	9.38	7.42	3.93	44.73	0.1252	12.793	49.838
14/09/23	17:16:06	2.526	18.211	28.88	10.23	8.42	14.4	7.76	3.84	37.46	0.1087	13.138	51.595
14/09/23	17:31:06	2.599	18.216	28.8	10.09	8.42	12.68	5.75	3.81	29.47	0.0976	13.709	55.122
14/09/23	17:46:06	2.663	18.213	28.95	9.98	8.41	15.51	4.96	3.68	32.85	0.1055	13.315	59.652
14/09/23	18:01:06	2.709	18.214	28.72	10.06	8.42	19.09	4.8	3.77	38.54	0.0994	13.317	55.107
14/09/23	18:16:06	2.744	18.28	28.06	10.62	8.47	32.16	3.47	4.06	135.12	0.0645	14.809	67.814
14/09/23	18:31:06	2.759	18.236	27.8	10.41	8.46	15.28	2.95	4.11	40.93	0.1283	12.625	55.914
14/09/23	18:46:06	2.78	18.226	28.79	10.09	8.46	28.11	2.62	3.98	108.22	0.117	13.919	52.03
14/09/23	19:01:06	2.749	18.216	28.39	9.36	8.44	9.94	2.8	3.9	27.36	0.1054	13.385	62.874
14/09/23	19:16:06	2.729	18.18	28	9.29	8.42	8.4	3.01	4.02	30.65	0.105	12.17	54.936



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14/09/23	19:31:06	2.657	18.185	28.28	8.67	8.41	8.92	2.87	4.11	30.31	0.1263	13.103	52.743
14/09/23	19:46:06	2.6	18.184	27.88	8.85	8.41	8.73	3.91	4.1	30.39	0.15	12.809	39.894
14/09/23	20:01:06	2.522	18.159	27.36	9.35	8.41	10.92	3.59	4.39	72.62	0.1344	12.95	39.473
14/09/23	20:16:06	2.45	18.181	27.44	9.51	8.42	14.41	4.4	4.51	40.3	0.1524	13.325	45.036
14/09/23	20:31:06	2.373	18.171	26.92	9.36	8.42	15.27	3.47	4.82	41.13	0.1724	13.063	48.388
14/09/23	20:46:06	2.287	18.171	27.11	9.28	8.41	10.12	4.03	5.1	32.34	0.1921	13.727	44.039
14/09/23	21:01:06	2.214	18.168	27.4	9.23	8.42	12.43	4.32	5.28	40.72	0.2119	14.285	56.89
14/09/23	21:16:06	2.143	18.184	26.68	9.3	8.42	23.24	4.5	5.39	101.38	0.241	13.986	58.583
14/09/23	21:31:06	2.072	18.175	26.55	9.09	8.41	14.84	5.09	5.59	37.8	0.304	14.005	77.74
14/09/23	21:46:06	2.005	18.14	25.9	8.72	8.39	22.51	3.97	5.83	79.14	0.2879	15.593	69.239
14/09/23	22:01:06	1.938	18.136	25.43	8.76	8.39	9.83	5.31	6.19	30.19	0.3486	14.267	73.237
14/09/23	22:16:06	1.879	18.139	24.54	8.91	8.4	17.39	5.06	6.61	113.96	0.3726	14.69	68.397
14/09/23	22:31:06	1.815	18.109	24.45	8.71	8.4	13.7	6.29	6.95	42.39	0.3564	16.275	74.123
14/09/23	22:46:06	1.763	18.088	23.87	8.74	8.41	17.83	4.32	7.34	46.7	0.462	14.852	78.637
14/09/23	23:01:06	1.71	18.051	23.51	8.66	8.4	13.54	5.76	7.63	59	0.456	15.744	77.21
14/09/23	23:16:06	1.661	18.034	22.92	8.59	8.41	23.76	5.18	7.87	62.83	0.5041	15.524	59.959



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STREAM

14/09/23	23:06	1.6	18.05	22.9	8.5	8.	11.84	5.92	8.26	34.6	0.58	13.1	121.1
		21	7	1	2	4				7	79	64	3
14/09/23	23:06	1.5	18.11	22.2	8.6	8.	36.25	5.12	8.53	146.16	0.68	13.1	145.0
		83	5	5	6	4					42	58	6
15/09/23	00:06	1.5	18.16	21.5	8.4	8.	9.38	5.01	8.68	28.2	0.69	13.6	142.0
		49	8	4	3	41				7	19	02	9
15/09/23	00:16	1.5	18.16	21.0	8.4	8.	24.34	4.78	9.14	76.7	0.70	15.3	143.8
		27	7	4	3	4				2	42	08	
15/09/23	00:31	1.4	18.18	21.5	7.5	8.	13.68	5.12	8.86	42.2	0.74	16.4	141.7
		91	5	3	1	4				1	1	13	6
15/09/23	00:46	1.4	18.18	21.3	8.0	8.	16.58	5	8.94	37.8	0.77	13.8	146.9
		69	5	9	1	38				1	44	24	2
15/09/23	01:01	1.4	18.16	21.0	8.0	8.	16.91	4.53	9.32	60.1	0.81	12.7	158.8
		61	2	3	5	37				1	7	61	3
15/09/23	01:16	1.4	18.14	20.3	8.1	8.	13.84	4.52	9.42	50.2	0.84	15.2	181
		72			9	38				2	79	41	
15/09/23	01:31	1.4	18.06	19.6	8.4	8.	19.07	4.22	9.86	57.7	0.79	15.7	136.0
		9	9	5	5	39				9	11	16	9
15/09/23	01:46	1.5	17.87	19.7	8.6	8.	24	7	10.1	41.9	0.84	20.3	162.0
		03	7	3	3	38			2	7		08	2
15/09/23	02:01	1.5	18.18	22.1	8.7	8.	19.51	6.06	8.6	56.6	0.71	19.6	118.4
		38	2			38				5	94	84	7
15/09/23	02:16	1.5	18.17	22.4	8.6	8.	21.08	7.72	8.1	78.7	0.63	17.2	145.6
		7	2	3	1	39				1	81	95	9
15/09/23	02:31	1.6	18	22.4	8.6	8.	16.5	7.59	7.73	43.6	0.64	18.9	133.2
		21		8	1	4				5	5	07	3
15/09/23	02:46	1.6	18.02	22.5	8.6	8.	26.42	7.42	8.3	60.8	0.61	16.9	134.7
		74	3	6	4	4				8	18	97	1
15/09/23	03:01	1.7	17.93	22.8	8.6	8.	14.08	7.36	7.97	41.7	0.63	20.6	158.7
		36	1	7	5	4					35	6	6
15/09/23	03:31	1.8	17.84	23.7	8.4	8.	13.03	11.3	7.01	45.9	0.52	15.3	192.8
		67	5	5	8	39				4	85	67	8



The STREAM project is part funded through the ERDF Ireland Wales Programme



STREAM

15/09/23	03:46:06	1.939	17.863	22.87	8.55	8.39	11.14	9.7	7.68	70.98	0.4223	17.242	191.98
15/09/23	04:01:06	2.014	17.826	23.2	8.52	8.38	15.44	8.73	7.37	53.16	0.5126	18.068	150.25
15/09/23	04:16:06	2.093	17.758	23.86	8.47	8.38	10.65	9	7.68	33.69	0.4616	15.492	132.4
15/09/23	04:31:06	2.175	17.69	24.12	8.41	8.38	11.81	9.99	6.82	36.78	0.4212	15.671	76.407
15/09/23	04:46:06	2.264	17.599	24.65	8.4	8.38	14.54	12.67	6.6	50.21	0.377	14.735	56.323
15/09/23	05:01:06	2.349	17.561	24.73	8.38	8.38	12.68	12.42	6.28	30.46	0.3468	14.978	60.067
15/09/23	05:16:06	2.435	17.471	25.37	8.27	8.37	13.51	9.89	5.99	36.39	0.3306	14.076	56.779
15/09/23	05:31:06	2.507	17.359	25.81	8.19	8.37	12.95	7.82	5.8	48.33	0.2638	13.98	50.59
15/09/23	05:46:06	2.571	17.376	26.27	8.21	8.37	13.34	7.05	5.43	33.93	0.2349	13.897	47.868
15/09/23	06:01:06	2.626	17.286	26.58	8.14	8.37	12.02	7.15	5.46	40.06	0.1987	13.568	44.863
15/09/23	06:16:06	2.667	17.266	26.98	8.06	8.37	12.62	6.43	4.81	32.53	0.1879	13.454	46.351
15/09/23	06:31:06	2.687	17.216	26.86	7.97	8.36	15.34	5.44	4.58	38.37	0.1787	13.32	46.547
15/09/23	06:46:06	2.707	17.208	27.9	7.86	8.35	20.09	5.24	4.37	29.36	0.1164	14.737	52.857
15/09/23	07:01:06	2.698	17.196	27.83	7.54	8.34	11	4.57	4.12	34.24	0.1261	13.071	51.082
15/09/23	07:16:06	2.667	17.207	27.82	7.46	8.33	9.92	5.06	4.9	27.04	0.1174	12.539	63.374
15/09/23	07:31:06	2.607	17.227	27.61	6.84	8.31	18.34	4.04	4.35	48.6	0.1125	12.29	58.888





STREAM

15/09/23	07:46:06	2.548	17.244	27.09	6.61	8.31	8.68	6.4	4.94	19.16	0.1359	12.49	57.386
15/09/23	08:01:06	2.491	17.294	26.47	6.97	8.32	7.6	4.95	4.85	67.04	0.1848	13.019	50.16
15/09/23	08:16:06	2.421	17.34	25.86	7.51	8.33	12.6	5.44	5.45	45.14	0.233	13.429	53.452
15/09/23	08:31:06	2.37	17.348	25.35	7.41	8.33	10.09	5	6.25	22.9	0.2542	15.463	81.8
15/09/23	08:46:06	2.283	17.358	25.98	7.39	8.33	7.13	5.6	6.22	22.98	0.3003	13.994	70.65
15/09/23	09:01:06	2.207	17.38	25.25	7.39	8.33	10.51	5.36	6.66	34.09	0.3251	14.577	69.613
15/09/23	09:16:06	2.135	17.402	25.05	7.33	8.33	10.36	7.55	6.51	26.62	0.3502	14.366	70.517
15/09/23	09:31:06	2.044	17.434	24.8	7.35	8.33	13.66	7.81	6.72	45.64	0.3247	15.649	69.488
15/09/23	09:46:06	1.967	17.463	23.91	7.57	8.33	9.14	7.39	6.97	35.21	0.3734	15.359	76.934
15/09/23	10:01:06	1.904	17.456	23.54	7.36	8.32	19.32	7.67	7.58	36.97	0.459	14.353	73.237
15/09/23	10:16:06	1.843	17.453	23.19	7.21	8.32	9.21	8.5	7.62	25.61	0.5405	16.035	110.81
15/09/23	10:31:06	1.777	17.457	23.23	7.34	8.32	7.15	5.62	8.13	18.44	0.6015	14.611	120.43
15/09/23	10:46:06	1.715	17.48	22.55	7.39	8.33	21.15	6.37	8.97	56.77	0.5637	15.132	87.614
15/09/23	11:01:06	1.659	17.519	22.24	7.43	8.32	15.17	6.44	8.71	40.57	0.614	16.873	116.57
15/09/23	11:16:06	1.604	17.557	21.59	7.56	8.33	10.35	6.94	8.73	25.73	0.6133	15.584	72.677
15/09/23	11:31:06	1.555	17.596	21.01	7.69	8.33	9.16	5.94	9.18	23.65	0.6811	14.986	79.48



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STREAM

15/09/23	11:06	1.509	17.627	20.37	7.76	8.33	10.62	6.71	9.58	35.07	0.726	14.804	85.227
15/09/23	12:06	1.469	17.655	19.56	7.95	8.34	15.82	6.1	9.98	46.01	0.8087	16.331	104.91
15/09/23	12:16	1.434	17.658	18.87	7.89	8.34	11.66	5.66	10.54	44.2	0.8428	16.762	121.3
15/09/23	12:31	1.402	17.666	19.09	7.89	8.33	9.57	5.56	10.74	41.94	0.8977	17.522	80.608
15/09/23	12:46	1.38	17.659	18.55	7.84	8.33	17.48	6.93	10.88	50.26	0.9553	16.895	86.708
15/09/23	13:01	1.37	17.662	17.76	7.85	8.33	12.51	6.13	11.22	34.07	0.9714	17.57	86.832
15/09/23	13:16	1.352	17.67	17.45	7.29	8.32	11.52	6.8	11.27	48.84	1.0572	17.324	91.139
15/09/23	13:31	1.361	17.691	17.7	7.08	8.34	19.11	6.19	10.99	57.91	1.0794	19.629	96.637
15/09/23	13:46	1.373	17.672	16.65	7.41	8.29	13.2	6.06	11.77	49.15	1.1041	18.489	83.055
15/09/23	14:01	1.424	17.66	16.18	7.95	8.31	12.57	5.54	12.69	40.69	1.1854	18.26	80.41
15/09/23	14:16	1.455	17.641	16.99	7.74	8.28	25.76	5.55	11.92	39.21	1.2788	18.611	89.692
15/09/23	14:31	1.5	17.587	20.01	7.86	8.31	8.13	7.45	9.85	27.91	1.11	17.725	87.574
15/09/23	14:46	1.559	17.532	19.92	8.1	8.33	15.65	7.75	9.76	49.99	0.8632	14.753	126.45
15/09/23	15:01	1.618	17.569	19.46	8.1	8.33	12.41	6.92	10.1	37.81	0.8629	16.434	123.26
15/09/23	15:16	1.688	17.49	20.6	8.12	8.34	9.06	6.42	9.29	42.4	0.8871	17.686	143.31
15/09/23	15:31	1.768	17.466	21.06	8.09	8.34	13.2	7.56	9.22	43.51	0.7676	16.254	90.85



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STREAM

15/09/23	15:46:06	1.854	17.472	20.5	8.12	8.34	14.33	9.54	9.73	34.37	0.7393	15.735	61.265
15/09/23	16:01:06	1.95	17.473	20.76	8.12	8.33	19.1	7.91	9.36	63	0.8032	16.123	54.776
15/09/23	16:16:06	2.058	17.413	20.97	8.2	8.34	13.19	9.03	9.29	42.09	0.6946	15.85	54.034
15/09/23	16:31:06	2.145	17.287	22.26	8.12	8.34	14.13	10.83	8.09	37.9	0.6961	15.679	51.887
15/09/23	16:46:06	2.26	17.223	22.62	8.24	8.35	13.9	11.07	7.97	50.56	0.5642	15.512	52.549
15/09/23	17:01:06	2.36	17.148	23	8.33	8.35	14.58	11.46	7.97	48.16	0.5347	15.124	51.257
15/09/23	17:16:06	2.451	17.069	23.82	8.38	8.36	15.42	15.37	7.08	40.94	0.4772	15.422	53.902
15/09/23	17:31:06	2.555	17.004	24	8.35	8.36	14.95	11.07	6.84	49.66	0.4534	14.944	53.876
15/09/23	17:46:06	2.628	16.931	24.55	8.33	8.35	13.96	12.6	6.28	88.15	0.4098	14.772	55.847
15/09/23	18:01:06	2.707	16.866	25.21	8.28	8.35	18.29	13.57	5.76	48.6	0.3489	14.625	56.501
15/09/23	18:16:06	2.761	16.805	25.74	8.22	8.34	16.92	13.13	5.45	40.87	0.2929	14.984	59.006
15/09/23	18:31:06	2.811	16.702	26.6	8.24	8.34	15.33	10.26	4.69	61.68	0.2317	14.607	57.88
15/09/23	18:46:06	2.84	16.697	26.89	8.13	8.33	16.25	11.23	4.62	50.11	0.1874	13.861	59.691
15/09/23	19:01:06	2.854	16.625	27.61	8.14	8.34	18.27	7.47	5.02	54.66	0.1775	13.492	68.818
15/09/23	19:16:06	2.862	16.588	27.41	7.89	8.34	23.06	5.75	5.03	52.71	0.173	13.283	79.312
15/09/23	19:31:06	2.838	16.611	27.63	7.32	8.32	11.19	5.85	4.66	33.69	0.179	13.87	87.238



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STREAM

15/09/23	19:06	2.78	16.561	27.8	7.52	8.32	15.01	5.39	3.93	64.71	0.1557	14.63	75.4
15/09/23	20:06	2.708	16.619	27.86	6.73	8.29	7.77	6.13	4.06	26.03	0.132	13.767	81.875
15/09/23	20:16	2.643	16.686	26.29	7.21	8.29	11.14	5.97	5.5	40.56	0.1608	14.202	79.105
15/09/23	20:31	2.55	16.761	25.23	7.52	8.3	36.1	6.14	6.14	63.81	0.2496	15.888	89.155
15/09/23	20:46	2.472	16.747	25.48	7.57	8.31	12.55	5.65	6.31	42.04	0.3276	15.009	93.524
15/09/23	21:01	2.403	16.806	24.59	7.51	8.3	11.46	5.95	6.84	35.7	0.3357	16.022	74.725
15/09/23	21:31	2.233	16.858	23.62	7.47	8.31	12.42	6.65	7.51	42	0.4595	17.3	96.142
15/09/23	21:46	2.149	16.866	23.02	7.37	8.3	14	5.97	7.77	86.98	0.5395	13.132	111.64
15/09/23	22:01	2.075	16.863	22.38	7.3	8.28	14.34	6.63	8.31	38.83	0.6006	14.323	125.89
15/09/23	22:16	2.001	16.864	21.9	7.18	8.27	7.56	8.47	8.49	23.29	0.6696	15.579	138.55
15/09/23	22:31	1.935	16.88	21.92	7.18	8.27	12.5	8.69	8.79	55.22	0.6117	20.199	158.84
15/09/23	22:46	1.863	16.91	21.72	7.25	8.27	11.15	6.74	9.22	57.89	0.6763	18.09	152.2
15/09/23	23:01	1.799	16.947	20.91	7.33	8.28	13.21	8.95	9.45	44.75	0.6683	19.474	135.87
15/09/23	23:16	1.737	16.981	20.18	7.48	8.29	13.06	8.72	9.85	30.57	0.7252	17.986	142.9
15/09/23	23:31	1.68	17.015	19.34	7.53	8.29	14.4	13.06	10.65	36.2	0.8148	17.969	167.9
15/09/23	23:46	1.63	17.036	18.67	7.59	8.28	13.77	9.93	10.81	47.77	0.9043	17.661	188.11



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STREAM

16/09/23	00:06	1.583	17.05	18.22	7.63	8.29	16.1	8.03	11.27	40.77	0.9671	18.575	203.31
16/09/23	00:16:06	1.539	17.045	17.57	7.62	8.28	12.48	7.85	11.99	34.24	1.0174	20.77	200.23
16/09/23	00:31:06	1.501	17.036	17.12	7.44	8.26	9.56	8.3	12.03	34.3	1.1216	21.201	237.26
16/09/23	00:46:06	1.464	17.017	16.61	7.52	8.27	11.41	6.71	12.59	50.02	1.2107	19.54	284.44
16/09/23	01:01:06	1.433	16.995	15.45	7.66	8.26	13.67	8.17	13.19	52.61	1.0153	19.517	360.81
16/09/23	01:16:06	1.408	16.967	14.96	7.65	8.25	12.23	7.19	13.69	49.37	1.3041	18.955	348.61
16/09/23	01:31:06	1.388	16.951	14.77	7.66	8.24	12.59	7.26	14.13	39.81	1.3356	19.831	347.12
16/09/23	01:46:06	1.375	16.944	14.37	7.52	8.24	9.26	8.74	14.37	30.92	1.1264	23.898	376.48
16/09/23	02:01:06	1.373	16.943	14.11	7.12	8.22	32.44	7.03	14.4	84.49	1.1775	25.266	375.31
16/09/23	02:16:06	1.388	16.862	13.4	7.37	8.19	8.9	7.22	15.06	24.36	1.2409	24.361	377.2
16/09/23	02:31:06	1.419	16.796	12.63	7.57	8.19	12.17	6.16	15.89	30.38	1.1245	25.418	385.94
16/09/23	02:46:06	1.462	16.743	11.9	7.64	8.17	15.54	6.19	16.43	46.27	1.0497	26.159	419.96
16/09/23	03:01:06	1.49	16.84	15.91	7.52	8.19	16.65	11.27	12.74	38.38	0.9306	24.202	406.73
16/09/23	03:16:06	1.542	16.82	17.65	7.54	8.22	21.79	8.18	12.27	99.15	0.9117	24.221	402.17
16/09/23	03:31:06	1.605	16.78	17.33	7.57	8.23	18.42	11.6	12.47	52.88	0.7595	23.037	419.02
16/09/23	03:46:06	1.665	16.801	16.76	7.7	8.23	8.93	9.01	13.06	43	0.6418	25.525	465.83



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16/09/23	04:06	1.732	16.742	18.13	7.62	8.22	13.35	10.54	11.9	32.81	1.3587	11.861	379.47
16/09/23	04:06	1.807	16.695	18.76	7.59	8.23	11.53	9.14	11.45	36.94	0.8928	29.19	440.96
16/09/23	04:31:06	1.892	16.712	17.16	7.73	8.23	11.42	9.64	12.19	51.3	0.9254	23.661	443.17
16/09/23	04:46:06	1.992	16.674	18.07	7.64	8.22	9.3	10.27	12.02	26.52	1.2198	20.4	278.9
16/09/23	05:01:06	2.083	16.602	18.92	7.66	8.22	11.29	14.9	10.1	49.58	1.0556	19.679	339.08
16/09/23	05:16:06	2.169	16.511	19.87	7.61	8.23	16.15	17.92	9.4	41.16	0.9946	23.356	268.52
16/09/23	05:31:06	2.265	16.394	20.92	7.64	8.24	11.36	15.22	9.13	37.15	0.9101	22.269	326.89
16/09/23	05:46:06	2.346	16.284	21.47	7.64	8.23	13.35	14.41	8.76	33.9	0.7462	18.562	251.28
16/09/23	06:01:06	2.42	16.18	21.87	7.65	8.23	10.88	13.16	8.74	37.22	0.744	17.592	202.48
16/09/23	06:16:06	2.491	16.105	22.05	7.64	8.23	11.71	12.97	8.33	32.41	0.606	17.569	92.389
16/09/23	06:31:06	2.558	16.005	22.98	7.61	8.23	9.39	14.59	7.44	46.79	0.6135	15.704	66.58
16/09/23	06:46:06	2.588	15.92	23.36	7.55	8.22	11.04	15.42	7.59	26.71	0.5278	14.993	66.207
16/09/23	07:01:06	2.62	15.883	23.79	7.4	8.21	9.52	16.02	7.26	52.11	0.4656	14.955	70.908
16/09/23	07:16:06	2.647	15.842	24.21	7.36	8.22	9.95	13.04	6.78	25.25	0.4559	14.922	118.6
16/09/23	07:31:06	2.634	15.865	24.67	7.05	8.21	9.58	9.77	7.13	50.11	0.4368	15.541	115
16/09/23	07:46:06	2.614	15.858	24.74	6.86	8.21	11.35	9.28	6.98	49.49	0.4547	15.058	94.713



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STREAM

16/09/23	08:06	2.55	15.804	25.01	6.7	8.19	8.66	9.79	6.5	27.22	0.5058	7.1425	197.43
16/09/23	08:06	2.488	15.876	24.04	6.59	8.19	8.61	7.89	7.56	26.58	0.4862	9.736	335.05
16/09/23	08:06	2.434	16.004	22.65	6.86	8.19	9.82	8.85	8.4	27.58	0.6525	4.336	296.43
16/09/23	08:06	2.363	16.018	21.73	6.95	8.18	11.79	9.15	9.16	32.18	NA	93.71	837.94
16/09/23	09:06	2.301	16.091	20.59	7.26	8.2	15.58	10.59	10.03	34.74	NA	57.392	789.26
16/09/23	09:06	2.219	16.11	20.38	7.17	8.2	8.49	8.99	10.25	23.98	NA	68.417	805.41
16/09/23	09:06	2.136	16.137	19.91	7.07	8.19	7.76	8.67	10.18	18.94	NA	91.442	732.64
16/09/23	09:06	2.061	16.127	18.68	7.51	8.2	6.24	18.01	11.76	24.81	NA	41.54	680.94
16/09/23	10:06	1.983	16.122	17.61	7.65	8.21	9.63	15.26	12.59	34.36	NA	23.202	610.03
16/09/23	10:06	1.916	16.132	17.05	7.73	8.2	8.37	9.29	12.75	26.01	1.147	20.112	131.56
16/09/23	10:06	1.852	16.129	16.22	7.81	8.21	9.15	8.31	14.17	30.36	1.201	19.646	257.37
16/09/23	10:06	1.795	16.166	15.28	7.83	8.2	9.95	8.04	14.61	28.39	1.3282	22.119	203.33
16/09/23	11:06	1.733	16.199	14.87	7.84	8.19	10.58	7.97	14.84	31.72	1.4133	20.96	120.1
16/09/23	11:06	1.679	16.228	14.74	7.86	8.19	8.96	7.73	14.9	29.59	1.4686	19.877	130.59
16/09/23	11:06	1.62	16.247	14.5	7.91	8.19	10.05	7.72	14.98	36.2	1.4807	20.178	133.98
16/09/23	11:06	1.568	16.28	13.69	7.9	8.19	10.7	9.83	15.57	28.66	1.4454	19.822	174.98



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STREAM

16/09/23	12:06	1.522	16.275	12.96	7.88	8.18	8.3	7.43	16.35	27.66	1.6972	8.7001	281.7
16/09/23	12:16:06	1.479	16.269	12.69	7.86	8.18	11.49	8.81	16.54	35.44	NA	90.233	908.87
16/09/23	12:31:06	1.439	16.241	11.81	7.95	8.16	8.29	8.83	17.24	29.71	NA	78.818	944.65
16/09/23	12:46:06	1.399	16.227	11.26	7.9	8.15	8.49	8.66	17.61	32.66	1.8051	22.255	132.36
16/09/23	13:01:06	1.369	16.208	11.06	7.68	8.14	8.96	8.75	17.82	37.92	1.8773	22.33	135.57
16/09/23	13:16:06	1.336	16.187	10.86	7.44	8.15	11.3	9.62	17.93	58.23	1.8849	23.338	141.93
16/09/23	13:31:06	1.311	16.163	10.68	7.57	8.12	9.88	8.55	18.38	30.29	1.9254	22.891	161.47
16/09/23	13:46:06	1.297	16.127	10.18	7.54	8.1	8.71	8.82	18.98	28.23	1.9726	22.927	183.55
16/09/23	14:01:06	1.292	16.08	9.39	7.79	8.1	11.81	11.27	18.99	37.4	2.0298	22.736	193.58
16/09/23	14:16:06	1.3	16.043	8.98	7.63	8.09	11.53	13.23	19.85	32.45	2.099	24.209	214.38
16/09/23	14:31:06	1.326	16.015	8.62	7.59	8.08	8.64	9.03	20.32	31.53	2.1834	22.834	212.23
16/09/23	14:46:06	1.365	15.95	7.93	7.82	8.06	10.44	12.24	20.92	39.54	2.1414	22.691	256.36
16/09/23	15:01:06	1.407	15.941	8.04	8.21	8.06	11.14	11.43	20.16	54.15	2.0042	26.04	307.18
16/09/23	15:16:06	1.452	16.063	10.43	7.75	8.06	10.78	9.36	18.31	37.82	1.9876	23.311	415.91
16/09/23	15:31:06	1.506	16.171	12.2	8.19	8.13	8.62	15.4	16.77	57.58	1.7842	22.945	432.56
16/09/23	15:46:06	1.57	16.201	13.35	8.17	8.14	11.9	16.3	15.42	25.55	8.0261	22.538	567.85



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STREAM

16/09/23	16:01:06	1.646	16.219	14.31	8.26	8.16	11.51	19.68	14.48	31.63	NA	21.174	524.85
16/09/23	16:16:06	1.742	16.165	12.05	8.38	8.16	10.55	18.28	16.75	40.26	NA	31.519	718
16/09/23	16:31:06	1.839	16.211	13.47	8.37	8.15	12.98	25.18	14.71	40.54	NA	23.537	522.31
16/09/23	16:46:06	1.946	16.192	14.38	8.27	8.16	12.12	40.32	12.72	42.03	NA	34.616	628.11
16/09/23	17:01:06	2.045	16.235	16.18	8.11	8.15	14.4	62.31	10.01	49.15	1.541	21.258	117.01
16/09/23	17:16:06	2.156	16.23	17	8.06	8.15	14.8	61.45	9.7	50.53	1.3084	21.186	136.88
16/09/23	17:31:06	2.268	16.193	18.28	8.01	8.15	15.66	69.63	8.7	42.37	1.4854	16.752	392.13
16/09/23	17:46:06	2.369	16.09	20.13	8.05	8.15	13.05	59.01	7.73	48.77	1.0904	19.805	129.64
16/09/23	18:01:06	2.471	15.975	22.24	8.05	8.16	14.81	54.85	7.1	45.01	0.9049	19.014	116.38
16/09/23	18:16:06	2.56	15.939	22.91	8.04	8.16	11.22	44.63	6.6	44.68	0.7133	17.587	103.91
16/09/23	18:31:06	2.647	15.94	23.84	8.08	8.17	16.95	35.02	7.17	80.82	0.6466	16.89	93.224
16/09/23	18:46:06	2.719	15.915	24.82	8.08	8.17	10.56	29.54	6.73	69.72	0.5681	16.742	94.666
16/09/23	19:01:06	2.769	15.902	26.33	7.91	8.15	10.55	29.61	5.58	32.18	0.471	15.588	85.598
16/09/23	19:16:06	2.807	15.897	26.03	7.88	8.15	13.67	26.02	5.4	33.88	0.362	15.276	98.477
16/09/23	19:31:06	2.84	15.735	25.76	7.86	8.13	11.89	25.92	5.85	47.26	0.3979	14.753	94.672
16/09/23	19:46:06	2.824	15.728	26.37	7.34	8.12	10.48	17.69	5.95	34.81	0.3155	16.2	98.753



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STREAM

16/09/23	20:06	2.81	15.771	25.81	6.89	8.12	14.8	15.63	6.17	33.58	0.3929	14.66	117.48
16/09/23	20:16:06	2.76	15.862	26.75	6.83	8.1	6.63	13.99	5.56	19.65	0.3672	15.887	127.53
16/09/23	20:31:06	2.707	15.899	26.83	6.73	8.1	10.11	14.69	5.35	29.73	0.2996	14.4	107.98
16/09/23	20:46:06	2.641	15.841	26.22	6.98	8.1	7.48	13.93	5.77	24.25	0.2872	15.428	121.3
16/09/23	21:01:06	2.559	15.913	24.9	6.79	8.11	10.28	13.67	6.71	29.89	0.4134	13.166	153
16/09/23	21:16:06	2.475	15.973	22.87	7.36	8.13	9.99	15.48	8.57	28.4	0.5269	13.215	132.55
16/09/23	21:31:06	2.399	15.979	21.7	7.48	8.14	9.25	13.6	9.92	31.92	0.7358	14.931	138.74
16/09/23	21:46:06	2.308	15.998	21.16	7.3	8.14	13.54	12.42	9.43	33.62	0.819	14.373	139.14
16/09/23	22:01:06	2.23	16.002	20.97	7.37	8.14	9.68	14.09	9.71	22.73	0.8451	15.7	156.59
16/09/23	22:16:06	2.16	15.998	18.57	7.59	8.14	12.22	15.52	12.63	40.03	0.8876	16.088	192.89
16/09/23	22:31:06	2.079	15.987	17.6	7.75	8.14	13.97	15.21	13.48	62.84	1.1355	17.493	215.45
16/09/23	22:46:06	2.011	15.987	16.82	7.72	8.14	9.49	13.17	13.57	35.71	1.2931	17.313	238.82
16/09/23	23:01:06	1.938	15.991	16.47	7.65	8.13	13.27	13.72	13.85	38.37	1.3303	17.181	314.46
16/09/23	23:16:06	1.866	15.997	15.94	7.72	8.13	9.23	13.48	14.16	31.89	1.441	15.599	353.46
16/09/23	23:31:06	1.804	16.003	15.27	7.71	8.13	11.83	11.5	15.2	23.58	1.5128	17.218	431.93
16/09/23	23:46:06	1.745	15.999	14.95	7.72	8.12	10.86	12.32	15.31	34.2	1.2318	19.159	464.08



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STREAM

17/09/23	00:06	1.685	15.994	14.23	7.78	8.12	20.85	12.45	16.33	50.56	NA	17.517	609.17
17/09/23	00:16:06	1.632	15.972	13.38	7.8	8.11	9.39	13.36	16.72	29.83	1.4359	26.892	408.65
17/09/23	00:31:06	1.587	15.939	12.6	7.83	8.1	8.46	12.63	17.34	27.98	NA	23.303	762.77
17/09/23	00:46:06	1.548	15.912	12.1	7.81	8.1	11.21	11.69	18.28	29.04	NA	24.433	838.93
17/09/23	01:01:06	1.514	15.88	11.62	7.69	8.09	8.49	12.43	19.03	29.02	NA	35.437	839.31
17/09/23	01:16:06	1.483	15.855	11.17	7.28	8.09	8.18	17.19	19.34	32.55	NA	29.126	804.91
17/09/23	01:31:06	1.459	15.849	11.25	7.23	8.08	13.72	22.07	18.84	41.38	NA	35.174	820.82
17/09/23	01:46:06	1.434	15.831	11.01	7.13	8.08	6.99	12.96	19.65	21.2	NA	36.471	829.27
17/09/23	02:01:06	1.42	15.793	10.43	7.28	8.06	8.13	12.56	20.51	20.21	NA	24.1	847.44
17/09/23	02:16:06	1.421	15.778	10.32	7.29	8.05	16.36	12.32	20.73	28.09	NA	49.384	816.17
17/09/23	02:31:06	1.433	15.771	10.31	7.45	8.04	8.65	15.71	20.52	21.23	NA	30.893	903.89
17/09/23	03:01:06	1.496	15.644	8.96	8.03	8.03	8.48	15.3	22.43	25.23	NA	19.684	976.23
17/09/23	03:16:06	1.526	15.889	15.25	7.41	8.03	9.92	36.85	14.21	42.92	NA	30.013	553.7
17/09/23	03:31:06	1.576	15.94	16.37	7.72	8.08	12.83	20.68	14.11	69.07	NA	32.232	643.38
17/09/23	03:46:06	1.636	15.88	13.87	7.92	8.09	14.9	17.58	17.26	28.43	NA	24.861	702.92
17/09/23	04:01:06	1.699	15.902	14.32	7.88	8.08	11.7	15.57	16.33	34.96	NA	38.867	710.24



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STREAM

17/09/23	04:16:23	1.77	15.896	13.49	7.94	8.07	10.22	17.93	16.73	35.19	NA	59.869	850.71
17/09/23	04:31:06	1.85	15.935	14.57	7.83	8.08	10.63	18.89	15.92	27.52	NA	32.913	747.96
17/09/23	04:46:06	1.928	15.933	14.7	7.83	8.07	10.11	20.79	15.14	36.9	NA	24.647	762.96
17/09/23	05:01:06	2.012	15.97	16.86	7.68	8.06	16.24	35.07	12.33	33.75	1.4709	20.746	79.916
17/09/23	05:16:06	2.11	15.95	16.73	7.91	8.08	9.77	23.06	13.67	37.4	1.3218	19.177	104.77
17/09/23	05:31:06	2.191	15.971	18.12	7.78	8.08	10.68	25.07	11.72	39.09	1.3069	19.34	107.08
17/09/23	05:46:06	2.287	15.953	19.26	7.77	8.08	9.33	25.3	11.74	24.91	1.1599	18.326	92.092
17/09/23	06:01:06	2.364	15.923	20.62	7.68	8.07	11.02	26.45	10.42	35.07	1.0489	17.475	93.842
17/09/23	06:16:06	2.452	15.911	21.35	7.59	8.06	8.45	25.87	9.01	26.4	0.9056	17.175	87.691
17/09/23	06:31:06	2.513	15.923	21.77	7.55	8.06	7.06	23.76	8.73	35.87	0.8053	17.077	88.771
17/09/23	06:46:06	2.588	15.959	22.64	7.42	8.06	7.4	21.07	9.05	27	0.7738	16.651	84.205
17/09/23	07:01:06	2.626	15.974	23.01	7.4	8.07	8.68	19.39	8.6	33.89	0.6926	16.029	83.031
17/09/23	07:16:06	2.673	16.014	24.06	7.32	8.07	8.73	18.08	7.48	26.92	0.67	15.409	85.13
17/09/23	07:31:06	2.704	16.051	25.11	7.25	8.08	6.91	16.73	7.63	21.92	0.6016	14.506	88.522
17/09/23	07:46:06	2.725	16.051	25.39	7.25	8.08	8.33	16.58	7.02	25.45	0.5148	13.337	95.814
17/09/23	08:01:06	2.706	15.953	23.51	7.29	8.08	6.62	24.39	7.38	22.71	0.492	14.791	94.327



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**STREAM**

17/09/23	08:16:06	2.686	16.009	24.53	7.01	8.06	6.78	20.99	6.87	34.56	0.7377	17.296	77.905
17/09/23	08:31:06	2.617	15.994	24.08	7.04	8.06	7.75	19.07	8.06	16.78	0.694	16.526	75.318
17/09/23	08:46:06	2.556	16.019	24.24	6.84	8.07	5.27	13.91	7.3	15.22	0.6086	15.564	67.618
17/09/23	09:01:06	2.495	15.966	22.68	6.86	8.06	6.8	15.19	8.72	19.51	0.616	15.506	71.979
17/09/23	09:16:06	2.416	15.967	22.37	7.04	8.06	6.13	13.03	8.78	19.49	0.7236	16.611	71.003
17/09/23	09:31:06	2.345	15.944	21.19	7.16	8.06	4.65	12.16	10.18	14.39	0.7614	16.864	70.588
17/09/23	09:46:06	2.251	15.948	20.63	7.28	8.07	19.83	13.82	10.73	49.45	0.872	16.561	81.732
17/09/23	10:01:06	2.163	15.946	20.66	7.08	8.07	15.17	11.39	11.41	27.63	0.9086	18.364	86.672
17/09/23	10:16:06	2.082	15.948	19.97	7.05	8.05	8.26	11.4	11.75	24.37	0.9235	17.595	80.03
17/09/23	10:31:06	2.005	15.946	19.56	6.88	8.04	6.69	12.08	12.16	25.87	1.0021	18.087	93.091
17/09/23	10:46:06	1.922	15.899	17.98	7.34	8.05	8.18	14.27	13.29	25.93	1.0408	18.437	85.857
17/09/23	11:01:06	1.853	15.849	16.21	7.45	8.06	7.98	14.45	15.84	25.99	1.1958	19.612	108.97
17/09/23	11:16:06	1.791	15.815	15.26	7.56	8.06	9.24	12.67	16.48	36.14	1.3473	19.677	175.27
17/09/23	11:31:06	1.724	15.782	14.26	7.68	8.07	8.39	12.53	17.68	24.73	1.4362	25.116	172.31
17/09/23	11:46:06	1.661	15.773	13.7	7.61	8.06	7.93	13.21	18.43	27.05	1.4905	28.893	350.9
17/09/23	12:01:06	1.598	15.749	13.22	7.7	8.05	8.85	11.35	19.1	29.73	1.7583	18.522	352.62



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STREAM

17/09/23	12:06	1.543	15.73	12.77	7.69	8.04	11.07	12.17	19.7	44.26	1.7198	22.67	392.4
17/09/23	12:06	1.49	15.688	11.92	7.69	8.03	8.29	14.25	20.8	27.39	1.8313	16.526	409.74
17/09/23	12:06	1.449	15.628	11.1	7.75	8.03	7.87	12.98	22.07	25.41	1.3321	20.752	456.03
17/09/23	13:01	1.41	15.598	10.71	7.62	8.02	8.12	12.58	19.47	23.25	NA	29.947	503.68
17/09/23	13:06	1.371	15.564	10.2	7.45	8.01	8.16	12.51	23.24	28.63	NA	27.124	679.42
17/09/23	13:06	1.339	15.555	10.02	7.04	8	18.5	15.03	23.25	49.71	NA	29.994	685.56
17/09/23	13:06	1.312	15.547	9.83	7.16	7.99	8.94	12.15	23.79	27.23	NA	35.613	705.74
17/09/23	14:01	1.292	15.507	9.32	7.41	7.99	9.77	12.35	24.98	31.21	NA	52.003	761.95
17/09/23	14:06	1.289	15.478	9.06	7.3	8.01	8.29	15.06	25.18	27.59	NA	48.063	749.49
17/09/23	14:06	1.305	15.468	8.88	7.02	8	9.07	14.12	25.36	27.5	NA	42.449	689.02
17/09/23	14:06	1.329	15.416	8.01	7.21	7.96	9.21	13.72	26.23	29.47	NA	35.897	701.36
17/09/23	15:01	1.368	15.305	7.02	7.75	7.97	7.99	15.12	28.2	28.27	NA	38.383	740.7
17/09/23	15:06	1.395	15.525	11.01	7.55	7.94	8.46	19.45	21.92	27.43	NA	49.453	735.36
17/09/23	15:06	1.438	15.666	13.14	7.52	7.99	10.54	16.42	19.35	36.09	NA	40.682	723.58
17/09/23	15:06	1.495	15.677	13.04	7.62	8	10.9	13.29	20.41	34.72	NA	30.291	738.72
17/09/23	16:01	1.561	15.679	12.69	7.73	8.01	9.64	14.38	20.76	23.59	NA	26.646	734.2



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STREAM

17/09/23	16:06	1.629	15.726	13.5	7.74	8.01	13.06	15.52	19.43	27.72	NA	41.326	880.65
17/09/23	16:06	1.72	15.733	13.01	7.79	8.01	10.17	14.55	19.93	51.11	NA	29.597	659.01
17/09/23	16:06	1.808	15.766	13.7	7.74	8.01	13.23	27	17.95	28.09	NA	33.363	706.86
17/09/23	17:01	1.905	15.832	15.15	7.73	8.01	8.96	19.37	16.79	28.09	1.6104	18.961	347.83
17/09/23	17:06	2.006	15.852	14.97	7.9	8.03	9.94	17.55	16.62	30.13	1.3803	24.244	97.044
17/09/23	17:06	2.103	15.877	15.56	7.97	8.03	13.69	16.3	16.31	34.36	1.3912	21.529	73.885
17/09/23	17:06	2.21	15.925	17.46	7.89	8.04	7.66	14.2	13.9	30.61	1.3163	21.23	71.537
17/09/23	18:01	2.321	15.934	18.43	7.61	8.02	7.35	16.74	13.48	42.8	1.1679	20.067	65.13
17/09/23	18:06	2.413	15.953	20.48	7.47	8.01	10.17	18.46	11.39	30.13	1.0569	19.702	70.938
17/09/23	18:06	2.507	15.985	22.3	7.41	8.03	7.7	18.51	9.72	33.39	0.8662	18.571	69.064
17/09/23	18:06	2.567	16.037	23.59	7.43	8.05	9.08	12.57	8.9	21.63	0.7389	17.63	62.898
17/09/23	19:01	2.634	16.06	24	7.39	8.05	11.85	10.35	8.2	27.83	0.6371	16.528	57.917
17/09/23	19:06	2.67	16.081	24.61	7.29	8.05	6.67	9.78	7.44	109.52	0.5709	16.904	58.627
17/09/23	19:06	2.725	16.093	25.14	7.26	8.05	7.17	9.24	7.18	26.42	0.5496	16.308	57.08
17/09/23	19:06	2.752	16.099	25.22	7.24	8.05	6.89	9.27	7.56	33.6	0.4727	15.498	58.338
17/09/23	20:01	2.796	16.1	25.23	7.25	8.05	6.45	8.74	7.32	27.48	0.4769	16.152	58.298



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STREAM

17/0 9/20 23	20: 16: 06	2.7 88	16.11 1	25.5 6	7.3 7	8. 06	8.27	6.9	6.98	23.2 7	0.46 48	16.1 52	61.41 9
17/0 9/20 23	20: 31: 06	2.7 82	16.09 8	25.1 2	7.0 6	8. 07	5.77	6.75	7.21	16.3 4	0.47 2	16.2 83	67.33 6
17/0 9/20 23	20: 46: 06	2.7 21	16.14 8	26.7 4	6.8 7	8. 05	6.6	6.18	6.24	17.8	0.48 77	17.3 33	65.53 9
17/0 9/20 23	21: 01: 06	2.6 52	16.13	25.9 1	6.6 3	8. 03	47.02	6.45	6.69	38.0 2	0.39 76	16.8 82	65.96 9
17/0 9/20 23	21: 16: 06	2.5 77	16.11	25.0 5	6.5 2	8. 05	6.59	6.52	7.29	21.7 1	0.44 92	15.9 03	60.37 2
17/0 9/20 23	21: 31: 06	2.5	16.06 2	23.2 3	6.8 4	8. 04	9.12	9	8.81	58.2 1	0.50 93	15.7 63	59.07 1
17/0 9/20 23	22: 01: 06	2.3 11	15.99	20.5 4	7.0 9	8. 03	5.23	10.27	12.4 8	18.1 8	0.81 87	18.7 91	77.47 3
17/0 9/20 23	22: 16: 06	2.2 02	15.97 5	19.7 8	7.2 3	8. 03	6.42	10.59	13.3 2	17.1 4	0.88 19	19.3 28	75.94 7
17/0 9/20 23	22: 31: 06	2.1 19	15.91 6	18.4 4	7.2 5	8. 04	6.91	11.51	14.6 5	39.9 9	0.94 72	19.0 41	81.80 1
17/0 9/20 23	22: 46: 06	2.0 32	15.90 5	17.8 3	7.3 5	8. 02	7.57	13.85	14.9 1	22.9 2	1.10 06	20.9 15	68.14 3
17/0 9/20 23	23: 01: 06	1.9 67	15.86 7	16.7 3	7.3 1	8. 01	6.92	16.24	16.2 5	19.6 8	1.14 35	19.4 11	86.42 1
17/0 9/20 23	23: 16: 06	1.8 9	15.83 8	16.0 9	7.2 9	7. 99	7.11	14.21	17.2 6	22.4 5	1.24 86	21.7 33	150.4 6
17/0 9/20 23	23: 31: 06	1.8 22	15.84 2	16.1 4	7.2 6	8. 01	7.68	13.59	17.3 2	33.9 8	1.28 01	23.4 66	172.1 7
17/0 9/20 23	23: 46: 06	1.7 59	15.85 5	16.0 3	6.9 5	8	9.9	9.14	17.5 9	19.4 3	1.29 64	23.4 27	133.6 5
18/0 9/20 23	00: 01: 06	1.6 95	15.83 6	15.7	6.9 8	8. 02	6.25	10.84	17.6 8	19.9 8	1.31 22	21.6 31	126.8 1
18/0 9/20 23	00: 16: 06	1.6 29	15.80 5	14.9 4	7.1 2	7. 99	6.85	10.96	18.7 9	20.1 7	1.34 28	21.6 81	90.27



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STREAM

18/09/23	00:31:06	1.573	15.755	14.11	7.29	7.99	7.32	12.18	19.87	21.64	1.3717	24.833	108.64
18/09/23	00:46:06	1.528	15.706	13.37	7.29	7.98	6.29	11.81	21.09	44.81	1.4806	24.233	104.72
18/09/23	01:01:06	1.483	15.634	12.31	7.36	7.96	8.09	11.65	22.76	23.56	1.5757	25.088	138.56
18/09/23	01:16:06	1.447	15.575	11.57	7.42	7.96	10.08	12.05	23.81	26	1.7427	24.464	205.57
18/09/23	01:31:06	1.411	15.517	10.78	7.49	7.94	10.45	13.37	24.79	41.21	1.8344	24.382	201.33
18/09/23	01:46:06	1.381	15.463	10.1	7.5	7.94	44.14	12.41	25.6	54.89	1.8452	27.872	181.86
18/09/23	02:01:06	1.354	15.404	9.52	7.49	7.93	7.34	17.64	26.43	25.12	1.8658	31.097	197.24
18/09/23	02:16:06	1.338	15.347	8.87	7.53	7.91	9.76	15.63	27.63	31.03	1.8489	32.927	197.23
18/09/23	02:31:06	1.337	15.285	8.22	7.52	7.92	10.47	13.05	28.94	32.23	1.9076	35.108	240.79
18/09/23	02:46:06	1.347	15.281	8.17	7.28	7.89	6.19	12.61	29.08	20.41	1.9789	33.878	170.67
18/09/23	03:01:06	1.381	15.242	7.77	7.34	7.87	8.25	13.63	29.99	51.97	2.0113	33.979	190.86
18/09/23	03:16:06	1.417	15.166	6.9	7.48	7.88	6.46	14.16	31.35	22.06	1.9984	35.16	205.9
18/09/23	03:31:06	1.468	15.072	6.16	7.57	7.88	7	14.89	32.59	23.17	2.0192	37.794	223.03
18/09/23	03:46:06	1.515	15.303	10.69	7.32	7.84	8	17.26	26.66	20.37	2.093	38.961	221.03
18/09/23	04:01:06	1.565	15.736	18.38	7.12	7.95	6.62	13.13	17.89	21.46	1.4274	30.743	236.39
18/09/23	04:16:06	1.623	15.663	16.72	7.31	7.96	6.93	12.67	19.99	20.36	1.0885	25.873	323.68



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STREAM

18/09/23	04:31:06	1.696	15.662	16.55	7.29	7.96	7.4	12.11	20.57	34.76	1.2904	26.411	261.71
18/09/23	04:46:06	1.763	15.725	16.86	7.23	7.97	4.93	15.79	19.71	20.74	1.2781	24.564	167.71
18/09/23	05:01:06	1.837	15.812	19.5	7.05	7.96	6.23	10.89	16.75	23.72	1.2992	24.97	125.31
18/09/23	05:16:06	1.921	15.84	19.99	7	7.97	5.02	10.1	15.87	14.14	1.0732	23.119	113.85
18/09/23	05:31:06	2	15.877	21.52	6.83	7.98	6.22	10.22	14.41	20.18	0.9268	20.904	112.8
18/09/23	05:46:06	2.099	15.914	22.47	6.89	7.98	5.47	11.83	12.84	20.54	0.846	21.619	119.99
18/09/23	06:01:06	2.181	15.924	23.1	6.88	7.98	5.84	10.28	12.11	22.1	0.8351	22.502	107.09
18/09/23	06:16:06	2.274	15.926	23.61	6.91	7.99	5.42	12.28	11.37	16.74	0.7144	23.041	104.36
18/09/23	06:31:06	2.354	15.937	23.79	6.91	8	5.11	11.59	11.7	14.23	0.6174	21.441	112.03
18/09/23	06:46:06	2.432	15.97	24.23	6.88	8	5.59	11.07	10.22	15.12	0.6556	18.967	73.576
18/09/23	07:01:06	2.491	15.988	24.52	6.82	8	5.21	10.07	9.75	14.39	0.6067	18.371	80.11
18/09/23	07:16:06	2.529	16.014	25.04	6.77	8	4.78	9.12	10.03	12.54	0.5214	19.309	79.433
18/09/23	07:31:06	2.558	15.979	24.84	6.85	8.01	5.02	7.1	9.21	14.44	0.5401	18.563	84.756
18/09/23	07:46:06	2.602	15.981	24.85	6.51	7.99	4.22	7.26	10.04	14.28	0.5462	18.862	83.424
18/09/23	08:01:06	2.617	15.928	23.43	6.28	7.98	3.77	5.99	11.79	11.7	0.542	19.454	87.981
18/09/23	08:16:06	2.647	15.775	21.32	6.14	7.97	4.47	5.88	13.91	12.8	0.7686	20.381	92.127



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STREAM

18/09/23	08:31:06	2.611	15.993	24.93	6.3	7.98	4.54	6.72	9.64	8.52	0.8769	22.581	90.166
18/09/23	08:46:06	2.578	16.165	27.8	6.06	7.98	3	8.55	6.51	10.09	0.5207	20.16	78.327
18/09/23	09:01:06	2.516	16.097	26.47	5.63	7.96	3.55	5.98	7.45	11.25	0.331	16.809	71.753
18/09/23	09:16:06	2.466	16.053	26.03	5.85	7.97	3.64	6	8.85	11.75	0.4131	18.238	74.414
18/09/23	09:31:06	2.395	15.767	20.6	6.62	7.97	4.11	9.7	15.6	13.25	0.4504	18.911	80.405
18/09/23	09:46:06	2.326	15.677	18.93	6.75	7.98	4.17	7.93	17.48	11.84	0.9923	23.196	81.96
18/09/23	10:01:06	2.24	15.623	17.84	6.97	7.99	4.82	7.65	19.29	13.4	1.1289	23.258	91.46
18/09/23	10:16:06	2.162	15.622	17.25	7.08	7.98	4.69	9.75	20.15	14.35	1.1632	25.541	112.06
18/09/23	10:31:06	2.084	15.588	15.65	7.33	7.99	4.21	9.98	22.02	15	1.2669	26.654	114.86
18/09/23	10:46:06	1.998	15.557	14.94	7.39	7.98	5.86	11.81	23.42	18.24	1.3643	28.666	137.12
18/09/23	11:01:06	1.931	15.494	13.95	7.46	7.97	5.96	12.71	25.34	16.46	1.4595	29.762	190.7
18/09/23	11:16:06	1.855	15.459	13.13	7.53	7.97	5.88	20.04	25.72	19.42	1.5583	34.819	217.87
18/09/23	11:31:06	1.79	15.472	12.39	7.59	7.95	5.23	12.8	27.59	22.77	1.5365	33.892	280.23
18/09/23	11:46:06	1.727	15.522	11.99	7.51	7.95	5.15	15.55	28.1	18.14	1.5462	32.597	294.81
18/09/23	12:01:06	1.667	15.533	11.42	7.57	7.94	5.35	13.96	28.7	17.31	1.5702	32.37	277.5
18/09/23	12:16:06	1.605	15.558	11.23	7.52	7.93	6.1	15.04	28.8	18.25	0.3766	36.601	459.19



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STREAM

18/09/23	12:06	1.548	15.513	10.98	7.5	7.93	5.33	15.81	29.87	23.38	NA	31.262	612.7
18/09/23	12:06	1.499	15.408	10.33	7.56	7.9	5.92	17.29	31.14	19.25	NA	34.967	714.04
18/09/23	13:01	1.456	15.336	9.51	7.59	7.88	7.89	18.84	32.01	27.82	NA	39.142	779.33
18/09/23	13:16	1.416	15.311	8.63	7.62	7.87	6.87	28.95	31.73	22.22	NA	46.097	893.6
18/09/23	13:31	1.377	15.352	8.02	7.66	7.84	6.27	21.66	34.01	20.01	NA	55.064	833.2
18/09/23	13:46	1.338	15.344	7.63	7.68	7.84	6.25	19.05	34.46	21.98	NA	17.947	1067
18/09/23	14:01	1.308	15.344	7.23	7.69	7.82	6.24	22.63	34.41	20.42	NA	34.165	1005.5
18/09/23	14:16	1.281	15.301	6.35	7.81	7.81	6.03	21.35	36.01	19.96	NA	18.532	937.89
18/09/23	14:31	1.268	15.293	5.59	7.82	7.8	7.7	47.64	35.79	24.08	NA	31.459	930.03
18/09/23	14:46	1.265	15.309	5.13	7.71	7.8	6.92	31.2	37.03	21.73	NA	44.458	943.18
18/09/23	15:01	1.266	15.324	5.36	7.39	7.8	6.9	25.06	37.58	21.64	NA	NAN	966.75
18/09/23	15:16	1.273	15.314	5.34	7.06	7.83	7.14	21.91	38.45	21.65	NA	108.74	975.58
18/09/23	15:31	1.319	15.285	4.88	7.5	7.8	6.97	25.77	37.95	21.78	NA	NAN	961.13
18/09/23	15:46	1.36	15.319	5.05	7.84	7.75	7.07	25.8	37.32	22.45	NA	74.569	1087.1
18/09/23	16:01	1.398	15.655	12.06	7.84	7.84	6.1	17.5	30.72	20.93	NA	NAN	1005.5
18/09/23	16:16	1.451	15.601	10.89	7.72	7.86	6.75	20.01	32.49	20.62	NA	NAN	984.75



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STREAM

18/09/23	16:06	1.512	15.547	9.88	7.91	7.86	6.95	21.39	33.15	28.86	NA	41.431	1133.5
18/09/23	16:06	1.588	15.556	10.24	7.96	7.87	7.56	21.23	32.51	22.64	NA	69.651	1004.2
18/09/23	17:01	1.671	15.562	10.71	7.99	7.87	6.74	23.96	31.07	25.2	NA	NAN	1043
18/09/23	17:16	1.756	15.628	11.98	8.11	7.91	6.5	20.2	29.9	21.16	NA	NAN	1183.5
18/09/23	17:31	1.843	15.766	15.26	8.2	7.97	5.85	27.72	24.74	16.34	NA	NAN	1102.7
18/09/23	17:46	1.939	15.869	17.75	8.2	8.02	6.7	28.01	21.4	17.46	NA	NAN	1076.8
18/09/23	18:01	2.05	15.799	16.84	8.16	8.01	8.65	36.97	21.33	24.26	1.2366	28.654	95.21
18/09/23	18:16	2.167	15.896	19.13	8.08	8.02	7.71	48.14	17.04	25.89	1.3054	28.411	98.008
18/09/23	18:31	2.253	15.923	20.1	8.06	8.03	9.64	55.83	14.59	32.23	1.1246	24.845	92.946
18/09/23	18:46	2.365	15.992	21.66	7.96	8.04	8.99	66.73	12.3	36.84	1.0253	25.059	97.729
18/09/23	19:01	2.456	15.994	21.46	7.79	8.03	9.48	57.66	12.53	25.37	0.9334	23.775	106.26
18/09/23	19:16	2.537	16.057	22.01	7.94	8.06	8.38	46.98	12.67	27.93	0.8888	23.317	109.5
18/09/23	19:31	2.592	16.115	22.57	7.83	8.06	7.54	43.67	12.18	35.01	0.8372	22.025	100.64
18/09/23	19:46	2.651	16.136	23.24	7.78	8.06	7.93	50.42	10.96	24.39	0.7704	21.301	90.769
18/09/23	20:01	2.683	16.17	24.02	7.74	8.06	8.31	43.27	10.24	25.19	0.6862	19.564	121.49
18/09/23	20:16	2.726	16.204	24.3	7.76	8.08	7.29	23.22	10.78	33.43	0.7135	18.37	306.12



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STREAM

18/09/23	20:06	2.736	16.196	24.75	7.69	8.08	6.31	22.32	10.11	22.5	0.5876	19.627	136.52
18/09/23	20:46:06	2.744	16.18	24.76	7.51	8.08	6.09	14.98	10.4	17.97	0.5437	22.292	210.77
18/09/23	21:01:06	2.698	16.182	25.02	7.47	8.08	5.24	12.72	10.63	28.72	0.5583	22.38	171.17
18/09/23	21:16:06	2.651	16.165	25.5	7.09	8.07	4.75	12.61	10.24	28.72	0.5675	21.188	226.19
18/09/23	21:31:06	2.56	16.133	24.54	6.84	8.05	4.93	11.52	11.64	13.21	0.6072	19.991	252.58
18/09/23	21:46:06	2.488	16.015	23.12	7.1	8.04	12.8	12.56	13.48	39.65	0.5778	22.672	152.38
18/09/23	22:01:06	2.395	15.812	20.71	7.69	8.07	6.54	26.15	16.89	25.79	0.7031	23.87	172.94
18/09/23	22:16:06	2.328	15.569	17.68	7.89	8.05	5.09	16.93	23.36	19.91	NA	17.307	887.14
18/09/23	22:31:06	2.242	15.486	16.44	7.82	8.03	5.81	16.81	25.47	17.73	NA	54.007	995.2
18/09/23	22:46:06	2.16	15.514	16.84	7.87	8.03	5.32	19.18	24.57	17.69	NA	12.981	1176.7
18/09/23	23:01:06	2.076	15.405	15.61	7.82	8.02	4.96	18	26.44	15.3	NA	NAN	1077.3
18/09/23	23:16:06	2.001	15.34	14.9	7.9	8.01	5.8	19.31	27.04	16.97	NA	0	1135.8
18/09/23	23:31:06	1.926	15.298	14.32	7.81	8	6.03	21.53	26.87	19.27	NA	NAN	973.75
18/09/23	23:46:06	1.853	15.294	14.08	7.87	8	5.97	18.75	28.02	20	NA	18.304	1180.3
19/09/23	00:01:06	1.789	15.29	13.79	7.82	7.98	6.48	20.12	28.73	18.39	NA	0	1157.2
19/09/23	00:16:06	1.727	15.3	13.64	7.77	7.98	5.05	20.89	29.38	16.92	NA	16.089	1056.9



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STREAM

19/09/23	00:31:06	1.664	15.244	12.77	7.86	7.96	5.55	19.57	30	17.33	NA	160.89	1214.2
19/09/23	00:46:06	1.603	15.223	12.08	7.81	7.96	6.19	18.52	31.08	19.35	NA	80.304	954.15
19/09/23	01:01:06	1.548	15.19	11.21	7.9	7.94	6	20.17	31.88	17.89	NA	NAN	1111.2
19/09/23	01:16:06	1.504	15.164	10.68	7.85	7.92	5.99	19.59	32.58	19.71	NA	45.723	1105.9
19/09/23	01:31:06	1.45	15.157	9.99	7.88	7.9	6.82	21.24	33.34	21.98	NA	NAN	1069.7
19/09/23	01:46:06	1.409	15.141	9.51	7.83	7.88	5.89	21.39	33.84	18.44	NA	115.63	1056.1
19/09/23	02:01:06	1.372	15.123	9.11	7.82	7.88	5.39	20.92	34.12	25.97	NA	NAN	1187.5
19/09/23	02:16:06	1.349	15.106	8.73	7.74	7.87	6.05	22.5	34.49	19.31	NA	NAN	1036.9
19/09/23	02:31:06	1.306	15.01	7.58	7.94	7.84	6.51	24.77	35.23	19.4	NA	0	1376.5
19/09/23	02:46:06	1.281	14.963	7.06	7.77	7.86	5.72	24.51	36.33	18.63	NA	0	1413
19/09/23	03:01:06	1.275	14.95	6.89	7.67	7.86	6.09	24.88	36.2	19.89	NA	NAN	1147
19/09/23	03:16:06	1.295	14.954	6.88	7.43	7.86	6.4	20.74	36.45	19.39	NA	48.65	1012
19/09/23	03:31:06	1.305	14.936	6.62	7.55	7.83	6.02	21.89	36.63	19.26	NA	118.02	1123.4
19/09/23	03:46:06	1.35	14.892	6.03	7.81	7.82	6.56	25.44	36.55	19.44	NA	NAN	1189
19/09/23	04:01:06	1.376	15.213	11.83	7.73	7.82	6.11	18.01	30.83	19.94	NA	NAN	1138.6
19/09/23	04:16:06	1.413	15.337	14.31	7.66	7.9	6.47	22.69	28.21	21.66	NA	NAN	1178.4



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STREAM

19/09/23	04:31:06	1.468	15.271	13.55	7.86	7.93	5.94	24.16	29.41	18.35	NA	NAN	995.03
19/09/23	04:46:06	1.513	15.296	13.99	7.99	7.93	5.77	21.63	29.11	19	NA	128.02	1080
19/09/23	05:01:06	1.578	15.309	14.15	7.99	7.93	6.26	21.72	28.03	20.28	NA	16.054	1161
19/09/23	05:16:06	1.652	15.393	15.82	7.79	7.94	7.17	29.88	24.83	19.56	NA	17.655	1046.5
19/09/23	05:31:06	1.706	15.431	16.79	7.71	7.94	10.89	43.45	22.43	32.63	NA	55.442	1021.5
19/09/23	05:46:06	1.797	15.47	17.62	7.65	7.94	8.38	48.41	20.73	30.75	NA	0	1183.4
19/09/23	06:01:06	1.872	15.461	17.86	7.68	7.94	11.13	96.73	17.52	40.01	NA	NAN	1152.1
19/09/23	06:16:06	1.955	15.535	19.64	7.57	7.94	13.1	147.64	12.63	48.46	NA	31.96	1052.5
19/09/23	06:31:06	2.045	15.575	20.69	7.51	7.95	17.46	213.45	9.04	57.51	NA	155.98	1085.5
19/09/23	06:46:06	2.12	15.64	22.84	7.66	7.99	16.12	223.31	7.19	70.3	NA	61.048	1075.6
19/09/23	07:01:06	2.204	15.647	23.15	7.66	8.01	11.76	120.75	9.53	44.51	NA	0	1243.1
19/09/23	07:31:06	2.345	15.582	24.29	7.61	8.02	16.71	202.01	6.3	57.27	NA	21.681	1199.9
19/09/23	07:46:06	2.391	15.633	24.77	7.64	8.03	11.34	118.3	7.86	40.39	NA	102.24	1037.2
19/09/23	08:01:06	2.451	15.636	25.33	7.62	8.04	10.32	86.2	8.21	34.21	NA	25.817	1143.4
19/09/23	08:16:06	2.481	15.633	25.72	7.58	8.04	17.74	62.69	8.29	47.04	NA	217.14	1068
19/09/23	08:31:06	2.518	15.662	25.88	7.57	8.05	7.61	44.8	8.87	30.25	NA	NAN	1020.4



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STREAM

19/09/23	08:46:06	2.53	15.663	25.72	7.31	8.04	7.82	30.1	9.84	27.13	NA	NAN	1062.6
19/09/23	09:01:06	2.537	15.679	25.23	7.13	8.05	6	29.41	10.29	17.81	NA	NAN	1137
19/09/23	09:16:06	2.494	15.673	25.39	7.06	8.02	6.38	28.92	10.36	20.47	NA	NAN	1050.6
19/09/23	09:31:06	2.444	15.706	24.91	6.71	8.02	5.51	30.33	10.89	17.53	NA	NAN	1140.7
19/09/23	09:46:06	2.361	15.693	25.04	6.38	8	4.96	27.69	11.1	15.5	NA	56.251	1156.8
19/09/23	10:01:06	2.301	15.695	23.8	6.61	7.97	5.31	27.75	13.16	19.78	NA	NAN	1076.8
19/09/23	10:16:06	2.222	15.691	22.3	7.05	7.99	6.4	32.46	15.57	20.26	NA	36.194	1200.1
19/09/23	10:31:06	2.157	15.719	20.79	7.42	8	6.29	33.12	17.79	18.07	NA	NAN	1052.5
19/09/23	10:46:06	2.084	15.714	19.46	7.55	8	6.47	38.43	19.67	21.95	NA	0	1164.2
19/09/23	11:01:06	2.017	15.745	18.95	7.66	7.99	6.11	36.56	19.58	21.03	NA	NAN	990.56
19/09/23	11:16:06	1.963	15.729	17.7	7.72	7.99	6.33	36.3	21.95	20.22	NA	NAN	1059.6
19/09/23	11:31:06	1.879	15.722	16.85	7.73	7.98	5.85	36.59	23.09	19.23	NA	62.346	1080.9
19/09/23	11:46:06	1.818	15.724	16.43	7.67	7.98	6.43	85.17	22.99	22.38	NA	116.61	1094.5
19/09/23	12:01:06	1.75	15.733	15.8	7.69	7.97	6.6	45.2	24.06	24.76	NA	36.746	1149.2
19/09/23	12:16:06	1.684	15.758	15.25	7.75	7.97	6.13	40.67	25.05	21.35	NA	65.983	995.86
19/09/23	12:31:06	1.633	15.769	14.54	7.82	7.97	6.68	39.58	25.53	24.16	NA	0	1176.2



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STREAM

19/09/23	12:46:06	1.583	15.75	13.8	7.89	7.97	6.73	44.68	26.86	22.69	NA	1.594	1240.6
19/09/23	13:01:06	1.527	15.745	12.96	8.07	7.96	7.75	53.95	26.56	26.28	NA	67.107	1036
19/09/23	13:16:06	1.492	15.748	11.39	8.13	7.96	8.16	45.3	28.83	27.46	NA	NAN	1204.5
19/09/23	13:31:06	1.447	15.742	10.04	8.19	7.94	8.86	41.57	30.08	29.89	NA	NAN	1070.9
19/09/23	13:46:06	1.412	15.723	9.48	8.11	7.88	8.47	45.14	30.4	28.84	NA	NAN	1081
19/09/23	14:01:06	1.393	15.699	8.96	7.93	7.97	9.62	41.8	31.25	33.24	NA	NAN	1033.9
19/09/23	14:16:06	1.356	15.696	8.39	8.15	7.93	9.35	47.26	31.33	31.74	NA	0	1153.2
19/09/23	14:31:06	1.312	15.713	8.22	8.05	7.93	10.52	51.02	30.91	37.03	NA	NAN	1053.9
19/09/23	14:46:06	1.303	15.709	7.95	7.88	7.94	8.59	42.17	31.95	30.48	NA	NAN	982.26
19/09/23	15:01:06	1.297	15.713	7.81	7.78	7.93	9.24	51.53	31.46	31.39	NA	184.56	1152.7
19/09/23	15:16:06	1.288	15.734	7.56	7.69	7.93	7.86	40.82	32.9	27.83	NA	60.385	994.98
19/09/23	15:31:06	1.286	15.772	7.52	7.83	7.93	10.13	43.03	32.56	39.94	NA	NAN	1005.7
19/09/23	15:46:06	1.327	15.825	7.06	7.83	7.9	10.33	44.25	32.42	45.5	NA	36.596	989.05
19/09/23	16:01:06	1.34	15.861	6.54	7.73	7.93	9.69	40.8	32.88	35.41	NA	72.144	1151
19/09/23	16:16:06	1.379	15.912	11.13	8.04	7.87	9.97	49.27	27.76	35.27	NA	0	1380.4
19/09/23	16:31:06	1.424	15.903	12.18	8.03	7.9	9.71	50.22	27.14	31.01	NA	NAN	1326.3



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STREAM

19/09/23	16:06	1.485	15.971	11.36	8.28	7.91	9.51	46.83	27.74	32.15	NA	94.771	1034.5
19/09/23	17:01:06	1.558	15.985	10.84	8.28	7.92	10.17	52.04	27.86	35.14	NA	36.598	1088
19/09/23	17:16:06	1.629	16.057	12.72	8.17	7.91	10.6	58	25.4	37.17	NA	32.78	1026.2
19/09/23	17:31:06	1.707	16.144	14.8	7.96	7.91	12.32	94.76	19.6	43.25	NA	40.859	1028
19/09/23	17:46:06	1.788	16.251	17.62	7.68	7.91	16.77	184.37	12.22	61.41	NA	32.97	1020.2
19/09/23	18:01:06	1.876	16.321	19.7	7.59	7.92	15.84	278.38	7.88	78.34	NA	NAN	1092.2
19/09/23	18:16:06	1.955	16.345	20.87	7.53	7.92	15.4	206.74	8.85	52.18	NA	NAN	1132.2
19/09/23	18:31:06	2.041	16.377	22.29	7.46	7.94	15.9	188.8	8.23	57.99	NA	NAN	1069.5
19/09/23	18:46:06	2.132	16.396	22.6	7.41	7.94	13.95	175.27	8.39	54.21	NA	0	1069.5
19/09/23	19:01:06	2.208	16.415	22.77	7.36	7.95	11.54	116.23	9.97	49.62	NA	NAN	1136.7
19/09/23	19:16:06	2.284	16.397	22.25	7.49	7.97	8.22	66.67	12.86	27.94	NA	0	1077.8
19/09/23	19:31:06	2.347	16.427	24.39	7.23	7.96	12.5	125.65	8.54	42.61	NA	114.26	1054.8
19/09/23	19:46:06	2.409	16.441	24.59	7.35	7.98	11.04	96.75	8.97	35.78	NA	93.624	1040
19/09/23	20:01:06	2.448	16.474	25.18	7.41	7.99	9.66	96.73	9.01	38.88	NA	197.67	1015.1
19/09/23	20:16:06	2.487	16.477	25.16	7.43	8	8.35	60.28	9.97	163.83	NA	0	1123.6
19/09/23	20:31:06	2.519	16.526	25.84	7.41	8	9.31	60.73	8.99	28.47	NA	NAN	1164.8



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STREAM

19/09/23	20:46:06	2.534	16.524	25.97	7.17	8	7.86	38.54	10.3	32.49	NA N	NAN	1059.6
19/09/23	21:01:06	2.548	16.524	25.79	7.09	8.01	7.56	45.12	10.26	22.45	NA N	NAN	1014.5
19/09/23	21:16:06	2.516	16.51	25.7	6.73	8	11.22	33.92	10.12	40.3	NA N	0	1346.5
19/09/23	21:31:06	2.483	16.51	25.75	6.61	7.99	5.85	29.05	9.99	18.3	NA N	0	1139.1
19/09/23	21:46:06	2.42	16.488	25.41	6.26	7.97	5.18	24.41	10.55	17.91	NA N	41.499	1042.4
19/09/23	22:01:06	2.371	16.467	25.15	6.43	7.96	4.96	28.33	11.48	17.09	NA N	18.796	1140.7
19/09/23	22:16:06	2.314	16.45	24.87	6.38	7.95	4.85	27.53	12.34	16.35	NA N	0	1295.4
19/09/23	22:31:06	2.255	16.424	24.11	6.58	7.95	4.97	34.83	12.84	17.45	NA N	NAN	1026.3
19/09/23	22:46:06	2.187	16.372	22.46	6.94	7.97	6.3	43.64	14.97	22.49	NA N	0	1276.2
19/09/23	23:01:06	2.122	16.343	21.59	7.03	7.96	5.72	39.6	16.7	15.3	NA N	NAN	1130
19/09/23	23:16:06	2.059	16.326	21.06	7.33	7.97	6.36	43.48	16.9	20.86	NA N	0	1094.4
19/09/23	23:31:06	1.991	16.259	19.27	7.41	7.97	5.6	34.62	19.8	19.3	NA N	NAN	1015.2
19/09/23	23:46:06	1.921	16.203	17.71	7.61	7.96	7.47	44.77	21.55	19.12	NA N	12.338	1050.3
20/09/23	00:01:06	1.863	16.194	17.55	7.64	7.97	7.04	44.3	21.69	20.07	NA N	33.218	1109
20/09/23	00:31:06	1.736	16.172	16.95	7.54	7.96	6.43	39.58	22.85	20.84	NA N	NAN	1044.3
20/09/23	00:46:06	1.685	16.14	15.96	7.65	7.96	6.5	42.36	24.19	44.55	NA N	NAN	1070.7



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STREAM

20/09/23	01:06	1.641	16.099	14.74	7.85	7.96	6.5	45.81	24.93	23.06	NA	0	1186.8
20/09/23	01:06	1.594	16.066	13.11	7.95	7.97	7.33	50.87	26.97	24.79	NA	0	1310.9
20/09/23	01:06	1.542	16.054	12.2	7.64	7.97	7.27	51.46	27.47	23.78	NA	0	1240.2
20/09/23	01:06	1.512	16.035	11.62	7.74	7.95	7.39	52.8	28.62	25.5	NA	NAN	1080.4
20/09/23	02:06	1.47	16.027	11.08	7.79	7.94	8.11	46.57	28.99	25.81	NA	NAN	1005.6
20/09/23	02:06	1.45	16.006	10.81	7.7	7.96	7.43	54.64	28.63	24.41	NA	96.33	1140.4
20/09/23	02:06	1.444	16.011	11.05	7.89	7.95	7.4	48.03	29.53	26.02	NA	NAN	1022.7
20/09/23	02:06	1.414	16.005	10.75	7.85	7.94	7.63	43.19	29.85	26.53	NA	NAN	1041.3
20/09/23	03:06	1.449	16.008	10.28	7.55	7.93	7.36	47.81	29.24	26.02	NA	NAN	1271.7
20/09/23	03:06	1.44	16.014	9.98	7.39	7.92	7.03	44.59	30.28	23.59	NA	NAN	1112.2
20/09/23	03:06	1.484	16.008	9.29	7.76	7.93	6.94	45.4	30.54	22.99	NA	NAN	1008
20/09/23	03:06	1.515	16.001	9.1	7.5	7.96	6.99	40.62	31.51	22.97	NA	60.006	1039.4
20/09/23	04:06	1.561	16.115	14.2	7.8	7.91	8.92	44.92	24.88	31.43	NA	NAN	1063.5
20/09/23	04:06	1.61	16.234	18.4	7.68	7.94	7.86	44.31	19.55	26.03	NA	NAN	1133.6
20/09/23	04:06	1.67	16.174	16.06	7.96	7.96	8.08	59.96	22.23	33.12	NA	27.626	1051.3
20/09/23	04:06	1.723	16.288	19.87	7.64	7.94	8.26	66.7	16.63	28.03	NA	NAN	1042.1



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STREAM

20/09/23	05:01:06	1.784	16.296	20.26	7.59	7.95	8.75	81.48	15.38	31.08	NA	106.04	1000.3
20/09/23	05:31:06	1.944	16.239	19	7.74	7.96	8.19	59.5	18.25	42.88	NA	94.967	1026.7
20/09/23	05:46:06	2.042	16.329	21.81	7.5	7.96	6.96	65.13	14.41	28.39	NA	12.855	1086.1
20/09/23	06:01:06	2.107	16.347	22.71	7.43	7.96	10.32	74.14	12.72	35.44	NA	71.032	1007.2
20/09/23	06:16:06	2.192	16.369	23.57	7.28	7.96	9.31	84.09	11.11	32.94	NA	NAN	1243.2
20/09/23	06:31:06	2.254	16.378	24.54	7.3	7.97	11.35	109	9	33.06	NA	0	1615.6
20/09/23	06:46:06	2.339	16.401	25.44	7.33	7.98	11.04	122.51	7.67	35.94	NA	34.903	1085.2
20/09/23	07:01:06	2.387	16.407	25.51	7.34	7.99	10.8	127.95	7.4	40.97	NA	NAN	1152.9
20/09/23	07:16:06	2.403	16.394	25.25	7.26	7.98	9.19	79.85	9.2	28.94	NA	NAN	1047.8
20/09/23	07:31:06	2.504	16.397	25.25	7.2	7.98	15.04	63.77	9.65	26.01	NA	4.1194	1037
20/09/23	07:46:06	2.502	16.407	25.75	7.22	7.98	7.23	55.15	9.37	25.7	NA	NAN	1262.8
20/09/23	08:01:06	2.508	16.406	26.31	7.3	7.99	7.74	43.15	9.21	22.28	NA	NAN	1145.8
20/09/23	08:16:06	2.604	16.408	26.41	7.14	7.99	5.49	36.4	9.29	22.68	NA	0	1242
20/09/23	08:31:06	2.602	16.414	26.8	7.21	8	6.3	35.79	8.54	21.2	NA	11.412	1166.9
20/09/23	08:46:06	2.649	16.423	26.96	7.19	7.99	5.6	38.54	8.26	29.35	NA	NAN	1041.8
20/09/23	09:01:06	2.626	16.426	26.93	7.07	7.99	7.68	26.61	9.09	28.54	NA	NAN	1056.1



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STREAM

20/09/23	09:16:06	2.663	16.425	26.48	6.72	7.97	5.14	25.65	9.53	15.8	NA	NAN	1023.8
20/09/23	09:31:06	2.616	16.414	27.1	6.73	7.99	4.93	24.91	8.98	15.68	NA	NAN	1237.6
20/09/23	09:46:06	2.572	16.41	27.19	6.75	7.99	5.08	27.91	8.43	17.46	NA	NAN	1059.8
20/09/23	10:01:06	2.489	16.423	26.74	6.43	7.97	5.14	22.58	9.58	14.99	NA	NAN	1050.9
20/09/23	10:16:06	2.428	16.404	24.93	6.7	7.97	4.8	26.48	12.26	16.14	NA	0	1312.7
20/09/23	10:31:06	2.374	16.427	24.15	6.77	7.97	5.21	29.09	13.49	18.08	NA	NAN	1230.5
20/09/23	10:46:06	2.319	16.432	22.7	6.95	7.97	5.29	30.66	15.09	17.29	NA	3.0051	1218.5
20/09/23	11:01:06	2.252	16.447	21.47	7.06	7.98	5.83	35.56	16.53	18.89	NA	0	1263
20/09/23	11:16:06	2.171	16.435	20.64	7.15	7.97	5.39	33.35	18.15	17.75	NA	NAN	1115.1
20/09/23	11:31:06	2.077	16.426	18.59	7.43	7.98	6.25	37.74	20.83	19.72	NA	50.734	994.36
20/09/23	11:46:06	1.996	16.452	17.38	7.48	7.98	7.45	33.63	22.38	18.63	NA	11.605	1150.8
20/09/23	12:01:06	1.911	16.405	16.76	7.72	7.98	6.32	42.64	22.95	20.97	NA	NAN	1213.3
20/09/23	12:16:06	1.848	16.41	16.71	7.63	7.97	6.3	43.47	23.08	20.42	NA	0	1355.4
20/09/23	12:31:06	1.789	16.399	16.3	7.5	7.97	6.07	37.12	23.3	20.62	NA	NAN	1104.9
20/09/23	12:46:06	1.726	16.443	16.13	7.53	7.97	5.55	31.45	24.39	18.9	NA	23.681	1052
20/09/23	13:01:06	1.664	16.443	15.37	7.6	7.97	5.89	40.63	24.88	19.8	NA	NAN	1144



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STREAM

20/09/23	13:16:06	1.61	16.438	14.62	7.71	7.97	6.42	37.3	26.15	20.88	NA	151.86	1026.3
20/09/23	13:31:06	1.556	16.446	14.09	7.62	7.97	5.82	32.93	27.05	15.79	NA	0	1156.4
20/09/23	13:46:06	1.498	16.394	13.56	7.79	7.95	6.77	41.25	27.39	22.79	NA	NAN	1199
20/09/23	14:01:06	1.463	16.372	12.89	7.79	7.94	6.41	36.27	28.53	20.72	NA	NAN	1242.9
20/09/23	14:16:06	1.432	16.337	12.11	7.83	7.94	11.51	33.98	29.74	42.19	NA	NAN	1122.2
20/09/23	14:31:06	1.411	16.328	11.47	7.85	7.92	6.72	32.01	30.33	22.72	NA	NAN	1045.2
20/09/23	14:46:06	1.378	16.332	10.27	7.95	7.93	7.07	35.77	31.49	23.25	NA	4.2783	1087.6
20/09/23	15:01:06	1.362	16.329	9.88	7.77	7.94	7.89	87.03	29.44	27.17	NA	0	1108.7
20/09/23	15:16:06	1.364	16.328	9.94	7.62	7.94	7.29	34.34	31.65	23.85	NA	19.42	1090
20/09/23	15:31:06	1.376	16.334	9.47	7.48	7.91	7	31.28	32.4	23.46	NA	NAN	1032.3
20/09/23	15:46:06	1.417	16.331	8.75	7.6	7.93	6.97	33.05	33.14	23.39	NA	76.932	1035.9



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