

# **DejaVu: Declarative Pattern Matching over Live and Archived Streams of Events**

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## **Motivation**











Live Stream					Archived Stream				
Symbol	Timestamp	Price	Volume		Symbol	Timestamp	Price	Volume	
UBS	11:13:23	34.70	800		•••				
UBS	11:13:24	34.80	800		UBS	11:06:19	34.85	2200	
					UBS	11:06:21	34.83	200	
UBS	11:13:25	34.82	400	1	UBS	11:06:47	34.78	100	
•••					UBS	11:06:49	34.81	300	
UBS	11:13:27	34.79	800	11	UBS	11:06:49	34.87	400	
				/	ſ				
UBS	11:23:25	34.83	800 /	/ /	UBS	11:23:25	34.83	800	
UBS	11:24:19	34.84	2000		UBS	11:24:19	34.84	2000	
UBS	11:24:21	34.82	200		UBS	11:24:21	34.82	200	
UBS	11:24:47	34.78	100	1 17	UBS	11:24:47	34.78	100	
UBS	11:24:49	34.84	200	1	UBS	11:24:49	34.84	200	
UBS	11:24:49	34.85	400	11	UBS	11:24:49	34.85	400	
UBS	11:24:54	34.80	500	1/	UBS	11:24:54	34.80	500	
UBS	11:25:24	34.82	700	17	UBS	11:25:24	34.82	700	
UBS	11:26:02	34.83	200	/	UBS	11:26:02	34.83	200	
UBS	11:26:04	34.92	100	//	UBS	11:26:04	34.92	100	
UBS	11:26:05	34.96	100	, ,	UBS	11:26:05	34.96	100	
UBS	11:26:08	34.95	100		UBS	11:26:08	34.95	100	
UBS	11:27:27	34.92	200		UBS	11:27:27	34.92	200	
UBS	11:28:03	34.97	500		UBS	11:28:03	34.97	500	
LIRS	11.78.17	2/1 97	2300		LIRS	11.78.17	2/1 97	2300	
AGA	and the second								



