WHAT IS AN EMONCHS FEED IN REDIS ?

AN ENTRY IN THE A HASH OF METADATAS user: (useria): Feeds) which is a Values Fields Key sorted set 160 1125200 gathering all feed: (id) engine the feed ids belonging to MANDATORY the user Public tag Start\_time & interval are mandatory for PMP FINA but For

a feed already sorted as a timeserie, they are not

## USER 1 LOGGED IN - Feed / list. json





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HOW DOES THE ENGINE RETRIEVE THE DATAS ?

## PMPFINA time = start + i \* interval

pos = time - meta [start\_time]

meta [interval]

=> data [time] can be found in the dat file at position pos

=> UNPACK

## PHPTIME SERIES

Start = 0 end = File size (9 (each value is 9 bytes)

For i = 0 to 30

mid = start + end - start , 9

if time == time [mid] return mid

if end - start == 9 return mid-9 is time > time [ mid ] start = mid else end = mid

=> data [time] can be found in the dat File

at position mid

=> UNPACK

## REDIS BUFFER

ONLY USED FOR DISK-WRITING PURPOSES

WHY NOT USING IT TO RENDER SMALL SIZE

SAMPLES, SUCH AS METEO FORECASTS?

Numpy	Array			
time 1	Value	Flattened		
		•	=> [fe	eed: (id): buff
	-	=> converted to binary string		
		(python tobytes() me' From the numpy P	Hod ackage)	

MY A PYTHON SERVICE FOR SERVICE RUNNER?

READING THE REDIS BUFFER WHEN IT IS SUCH A BINARY KEY

A SIMPLE PROCESS

1) A REDIS GET -> \$ result
2) UNPACK -> \$ tab = unpack ('dx', \$ result, 8)

=> \$tab[0] = time stamp \$tab[1] = value

DONE !