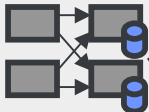


Task #2

Operator Logic

Keyed
Streams



Time
Windows



Watermarks



User
Defined
Functions

{UDF}

Load
Balancing



Services



Order



Timer



Timestamp...



HTTP



RNG

Serializer

Output
Queue

Non-
deterministic
buffer sizes

Causal Log Manager

Main Thread Log

1. ORDER 1
2. TIMER id=X
3. TS 161...7
4. HTTP {"a":3}
5. RNG 3842

Output Queue Log

1. BS 32768
2. BS 14572