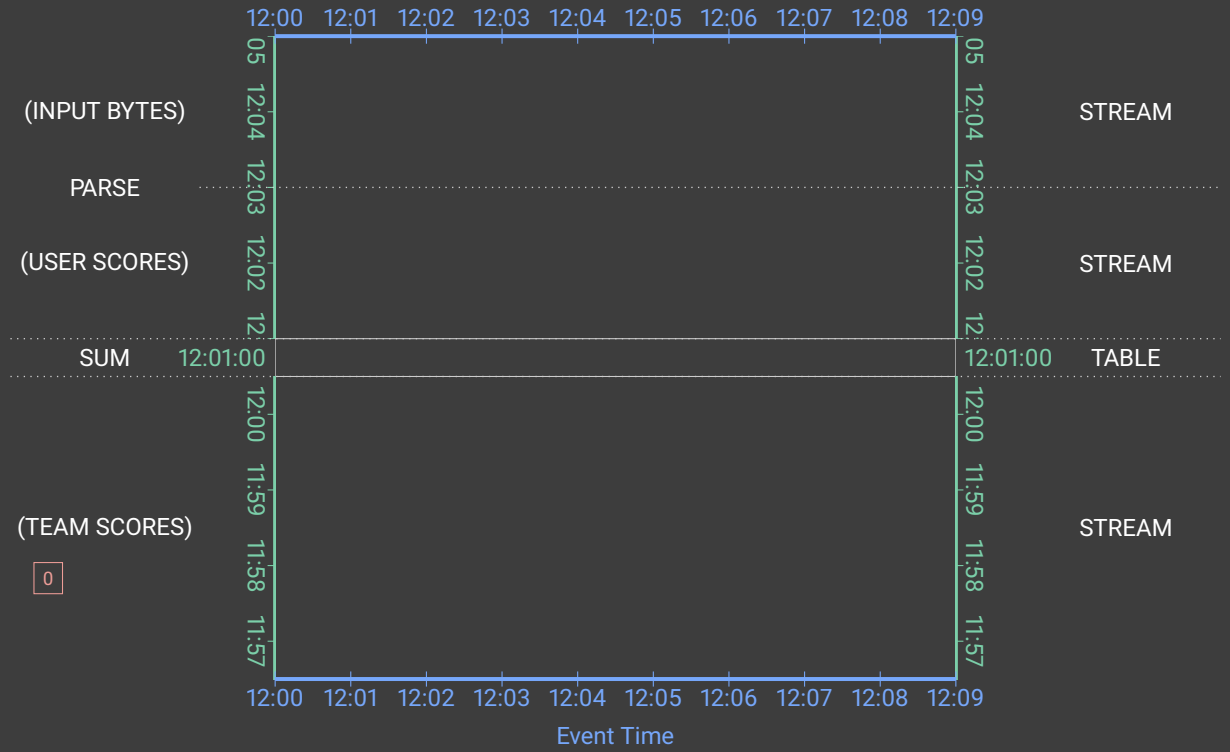
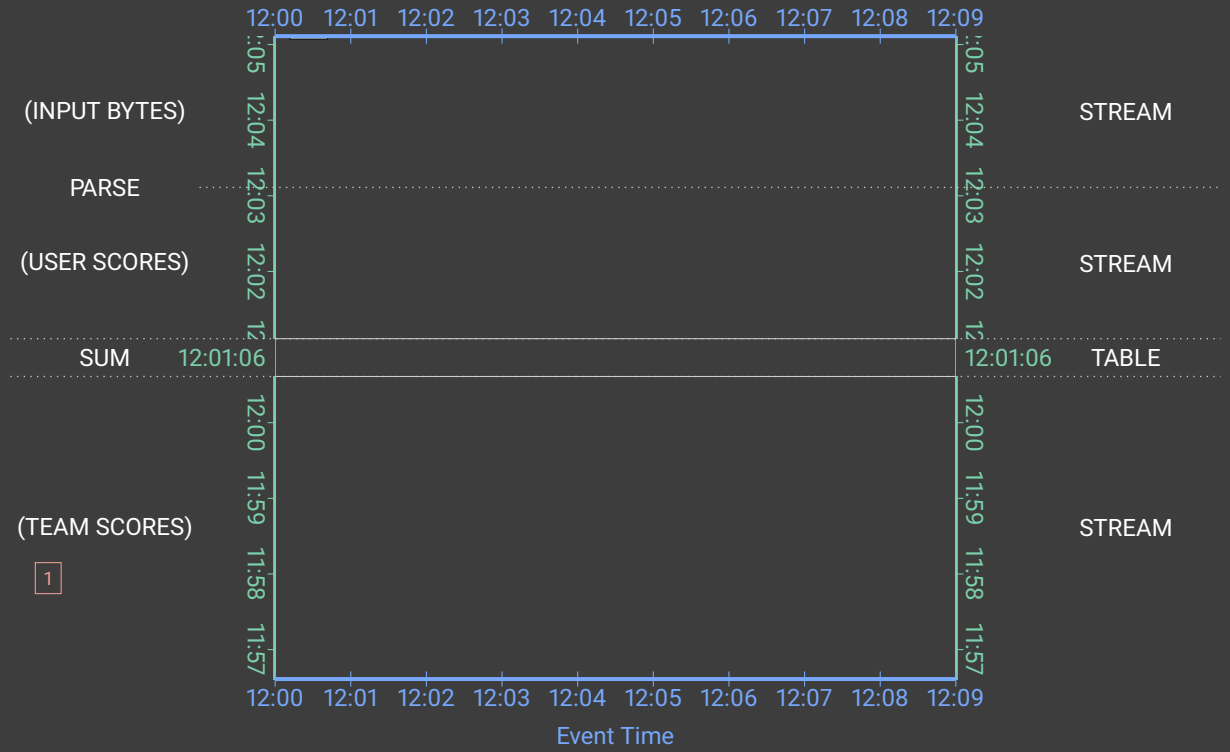

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:01:00
12:01:00
TABLE
(TEAM SCORES)
STREAM
0
05 12:04 12:03 12:02 12
12:00 11:59 11:58 11:57
Event Time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(USER SCORES)
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SUM
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TABLE
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STREAM
1
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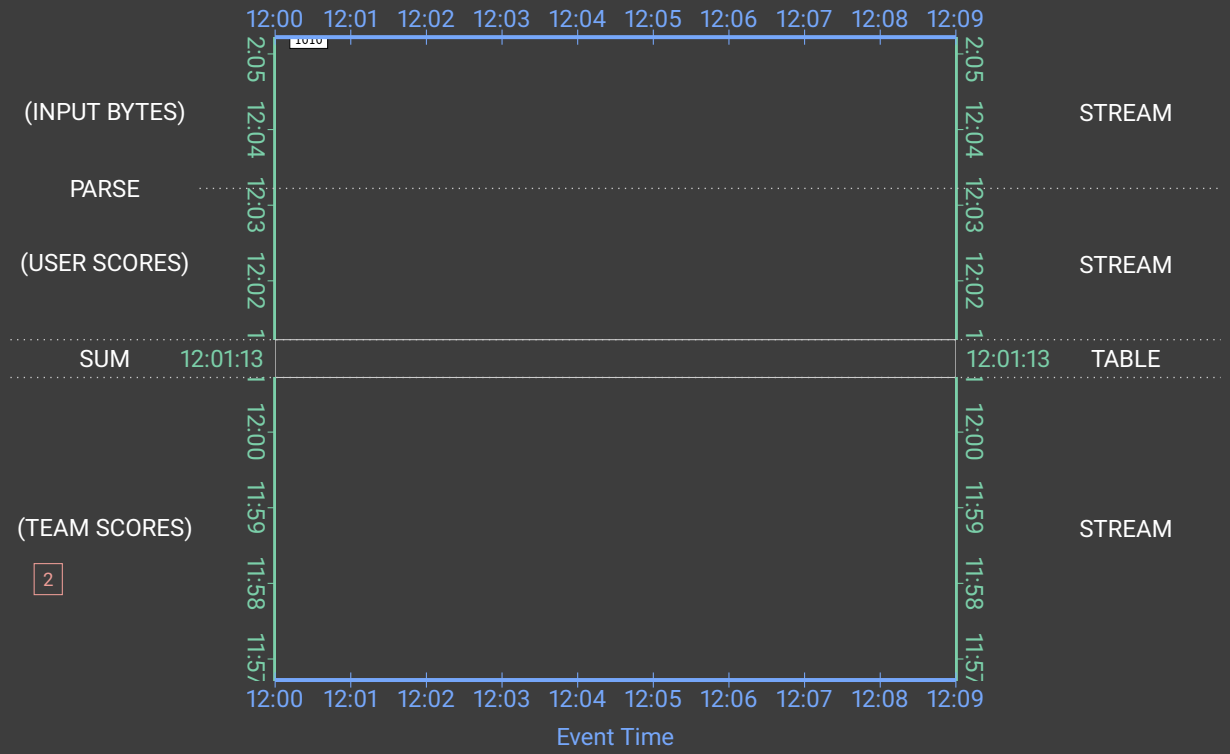
Event Time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PARSE
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STREAM
SUM
12:01:13
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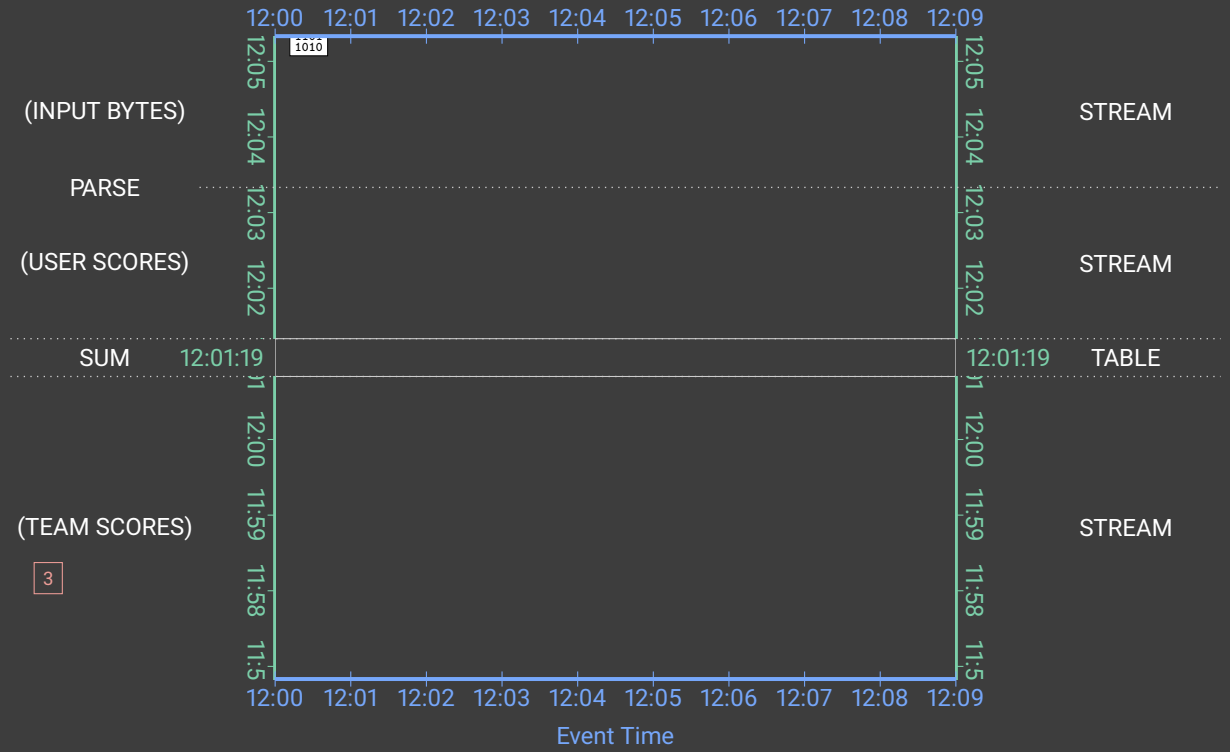
Event Time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SUM
12:01:19
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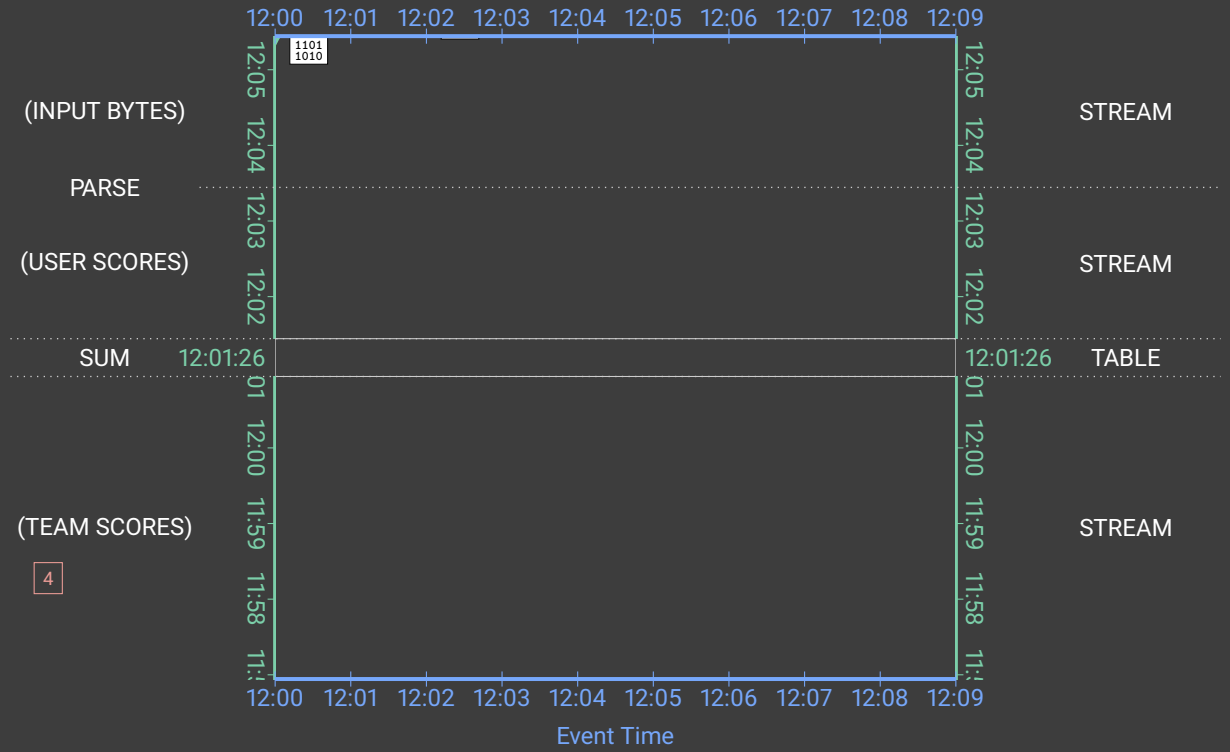
Event Time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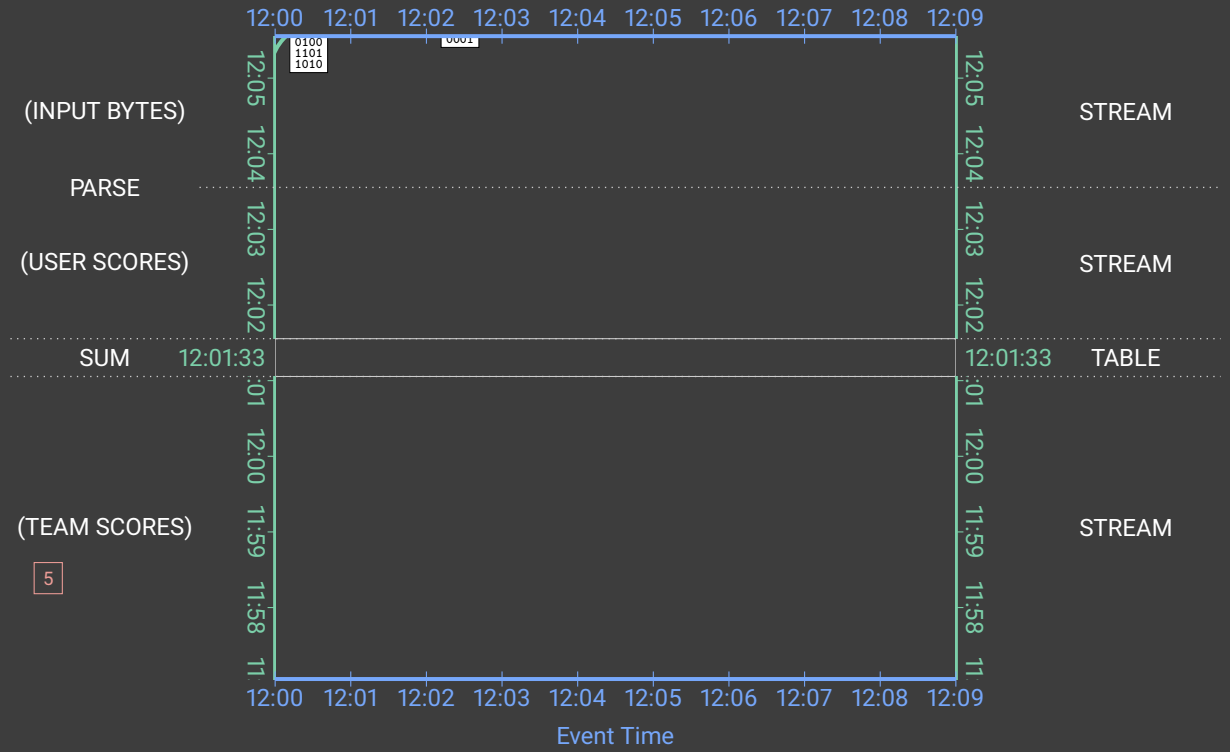
4
Event Time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PARSE
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STREAM
SUM
12:01:33
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TABLE
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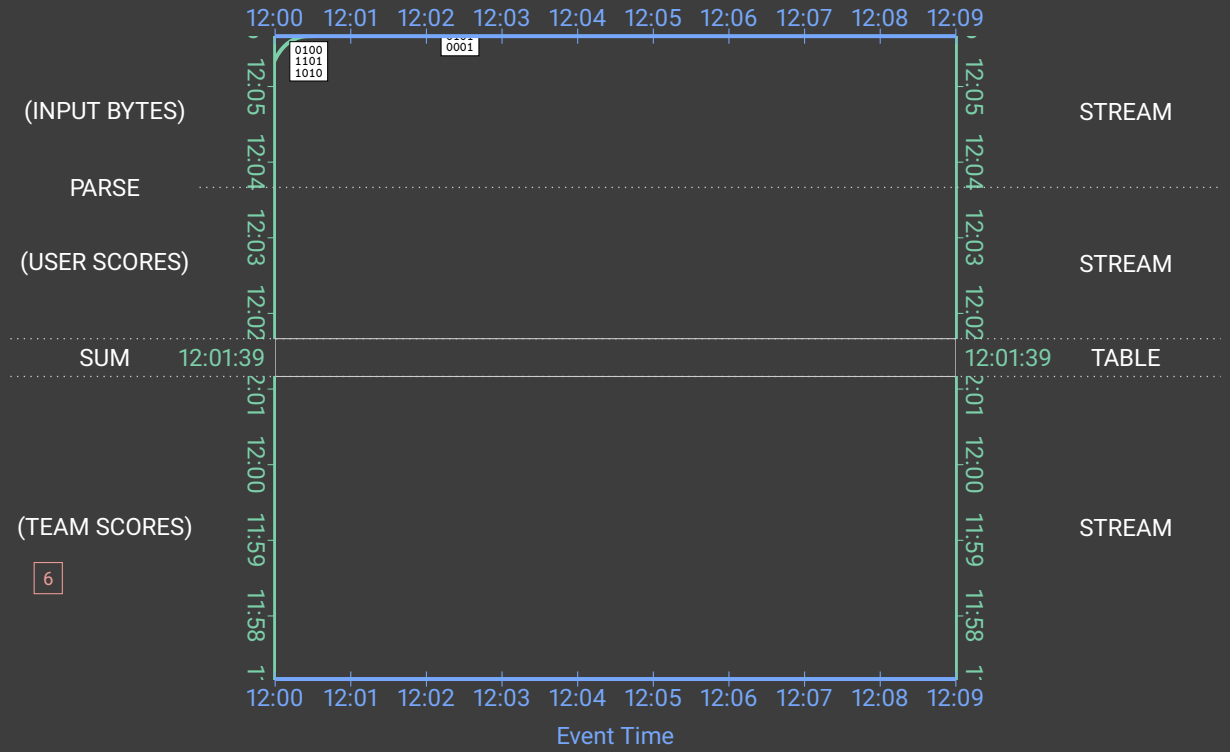
STREAM
5
12:05 12:04 12:03 12:02
:01 12:00 11:59 11:58 11
Event Time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STREAM
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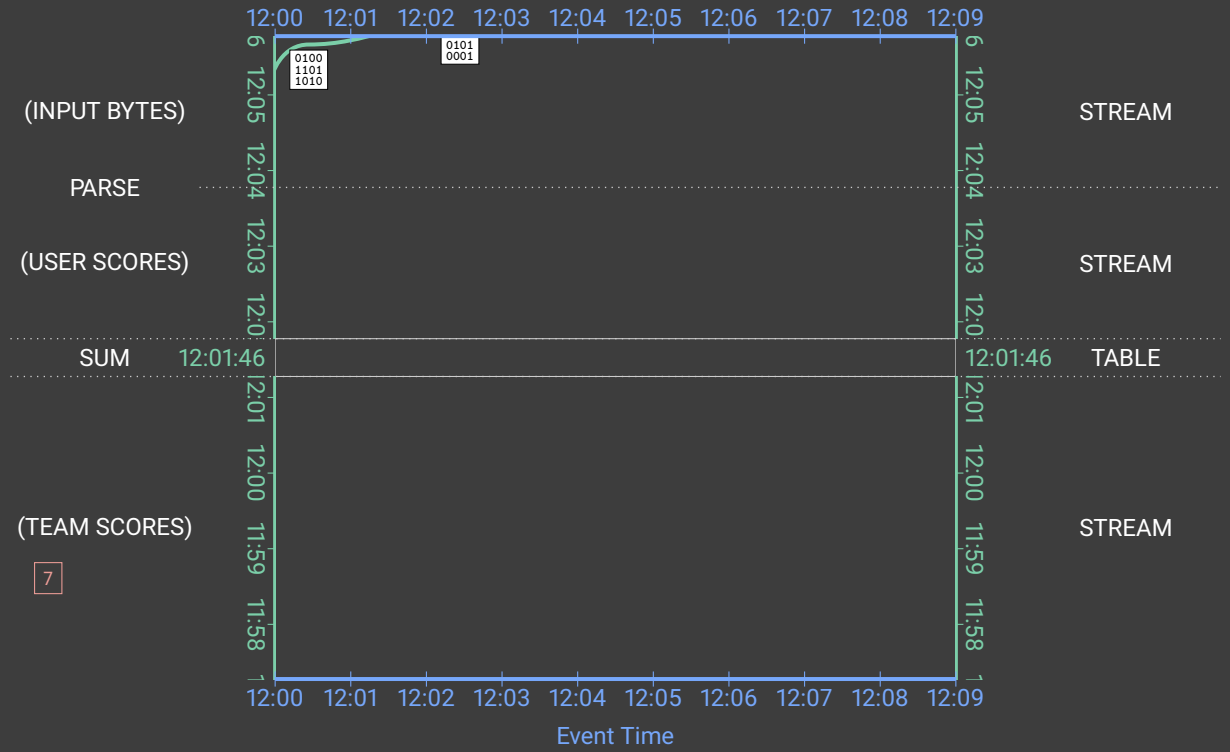
Event Time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0101
0001
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PARSE
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STREAM
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TABLE
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7
STREAM
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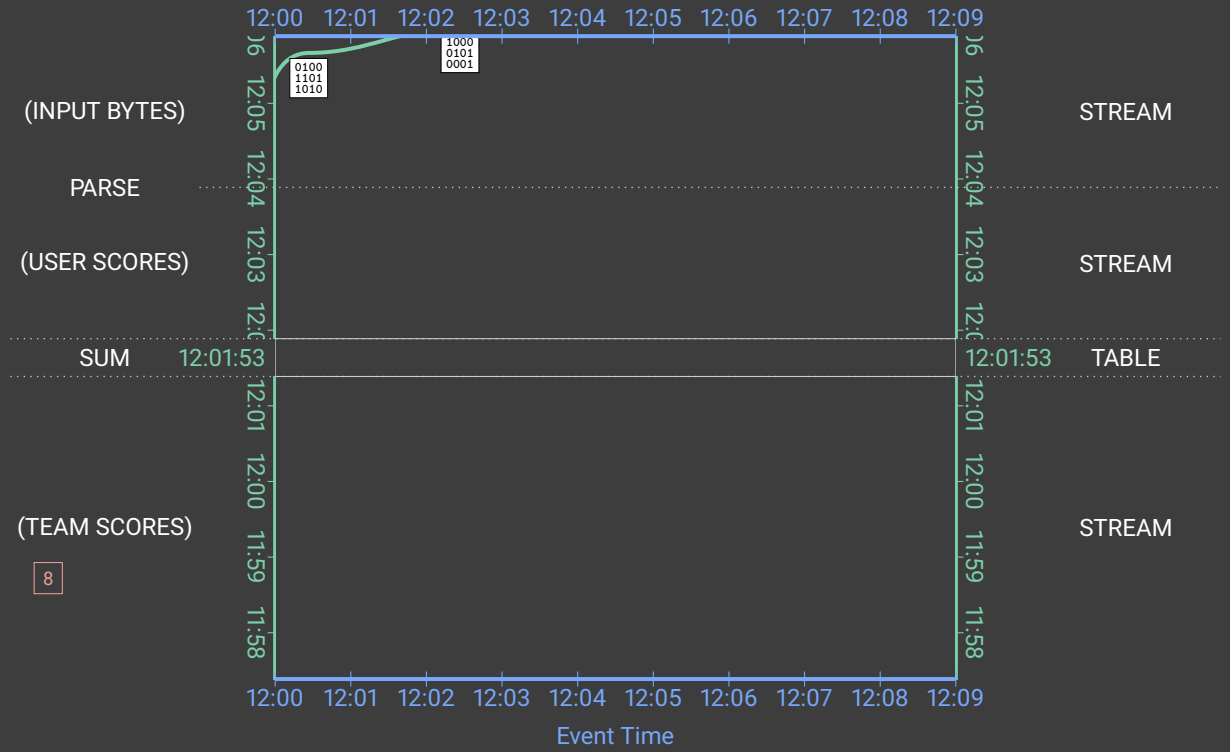
Event Time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0101
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PARSE
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STREAM
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TABLE
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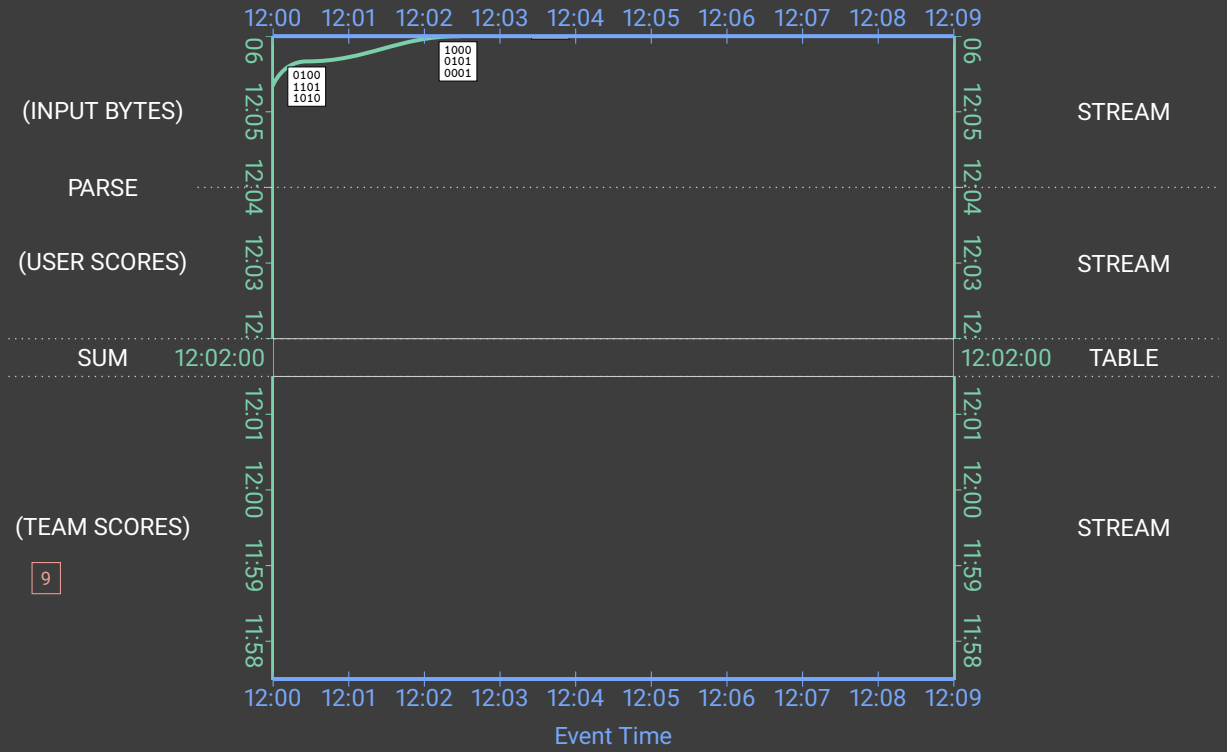
Event Time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0101
0001
STREAM
PARSE
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STREAM
SUM
12:02:00
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TABLE
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STREAM
9
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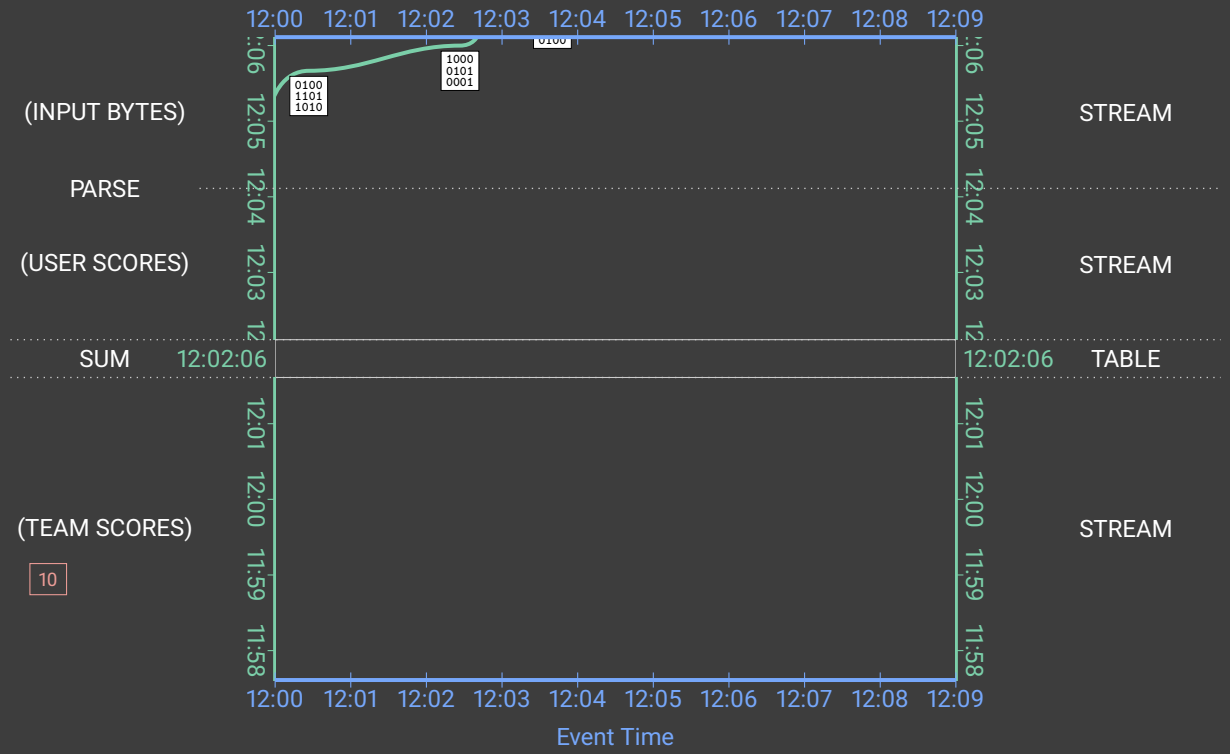
Event Time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1010
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STREAM
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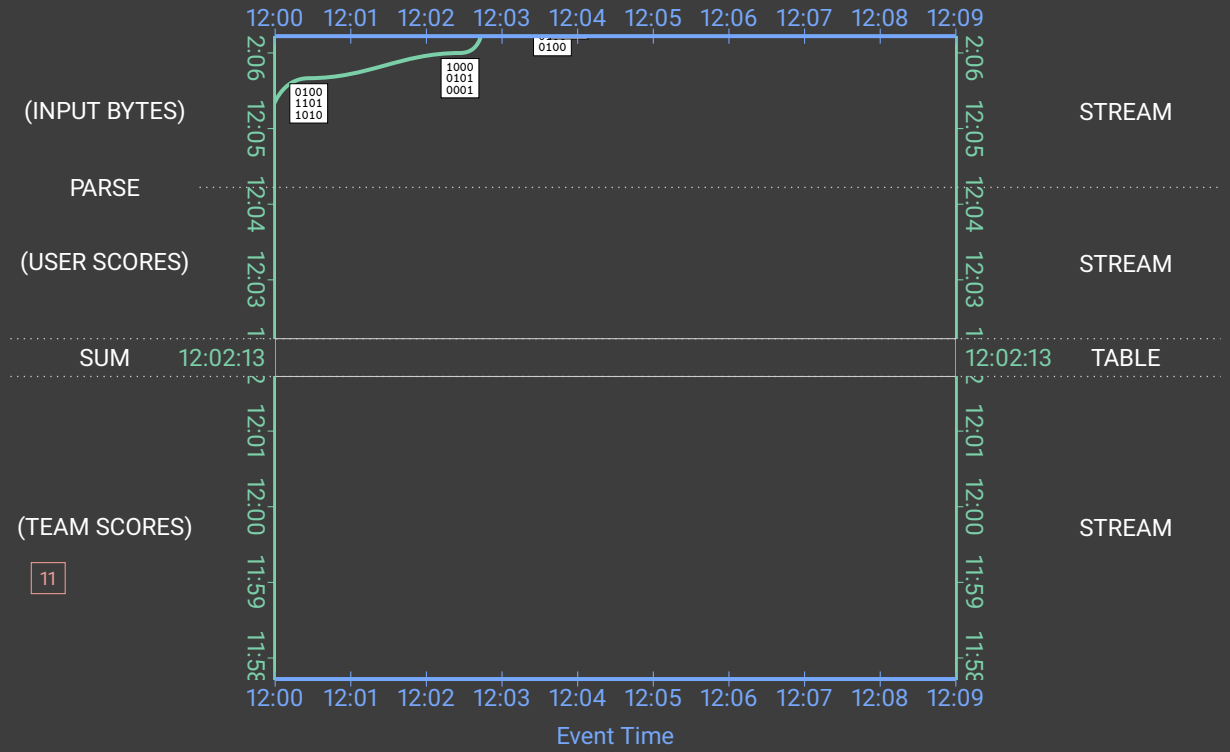
TABLE
STREAM
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time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12:02:13
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TABLE
(TEAM SCORES)
STREAM
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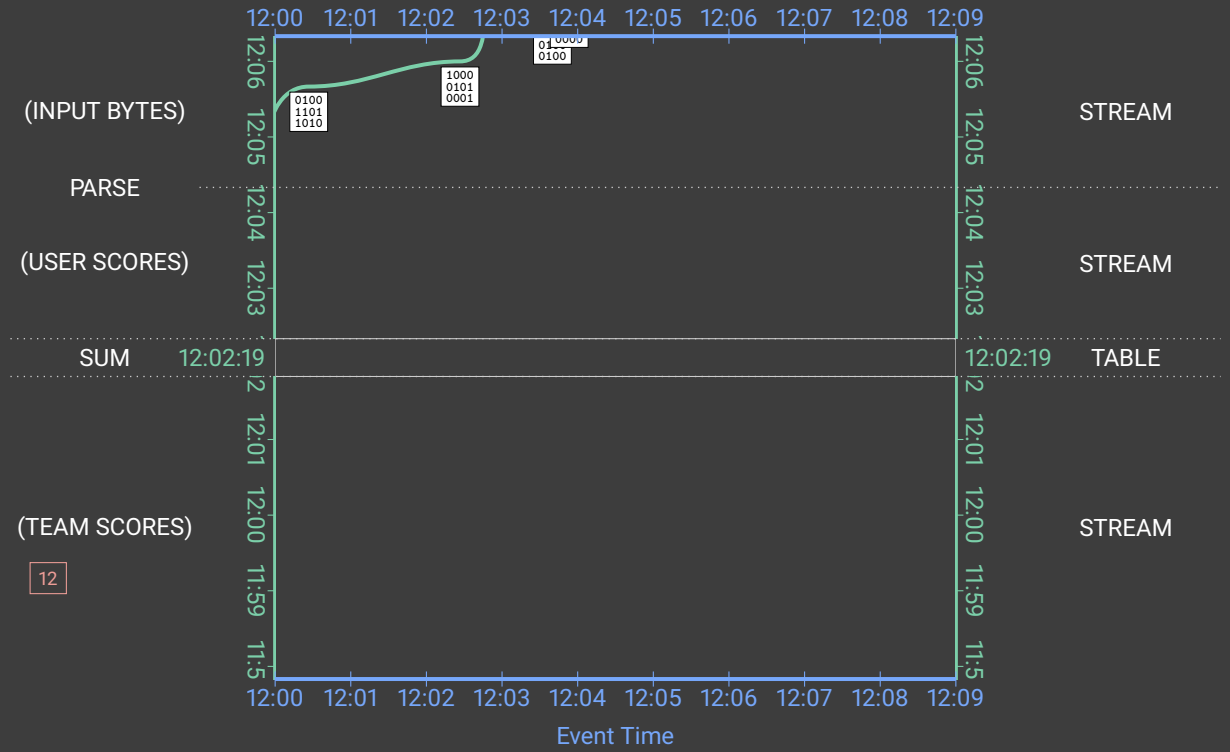
0100
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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STREAM
SUM
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TABLE
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STREAM
12
Event Time

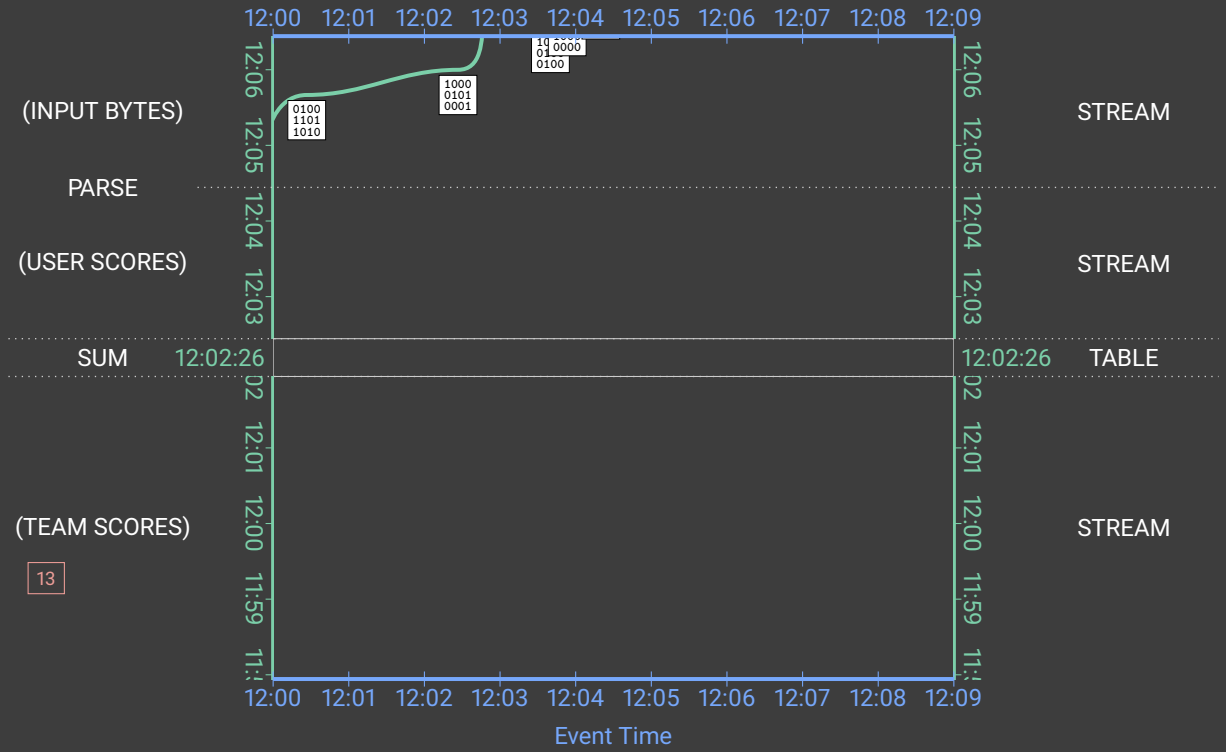
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TABLE
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0001
0100
Event Time

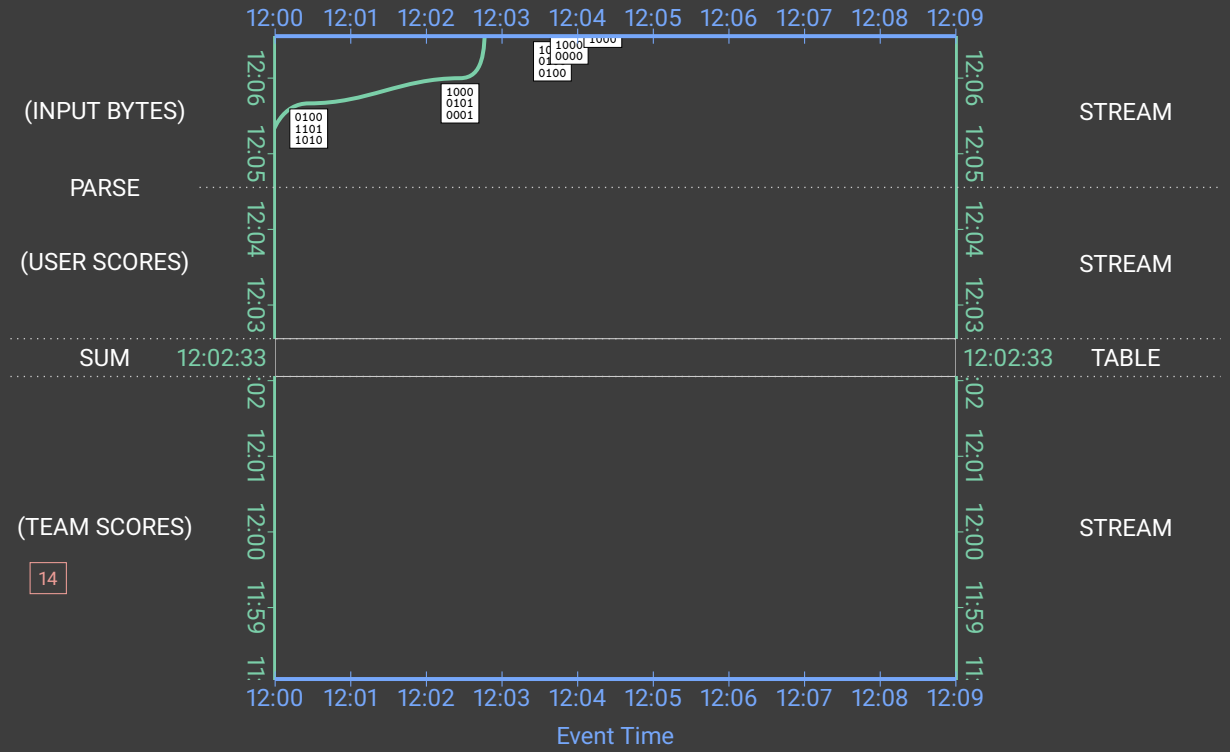
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TABLE
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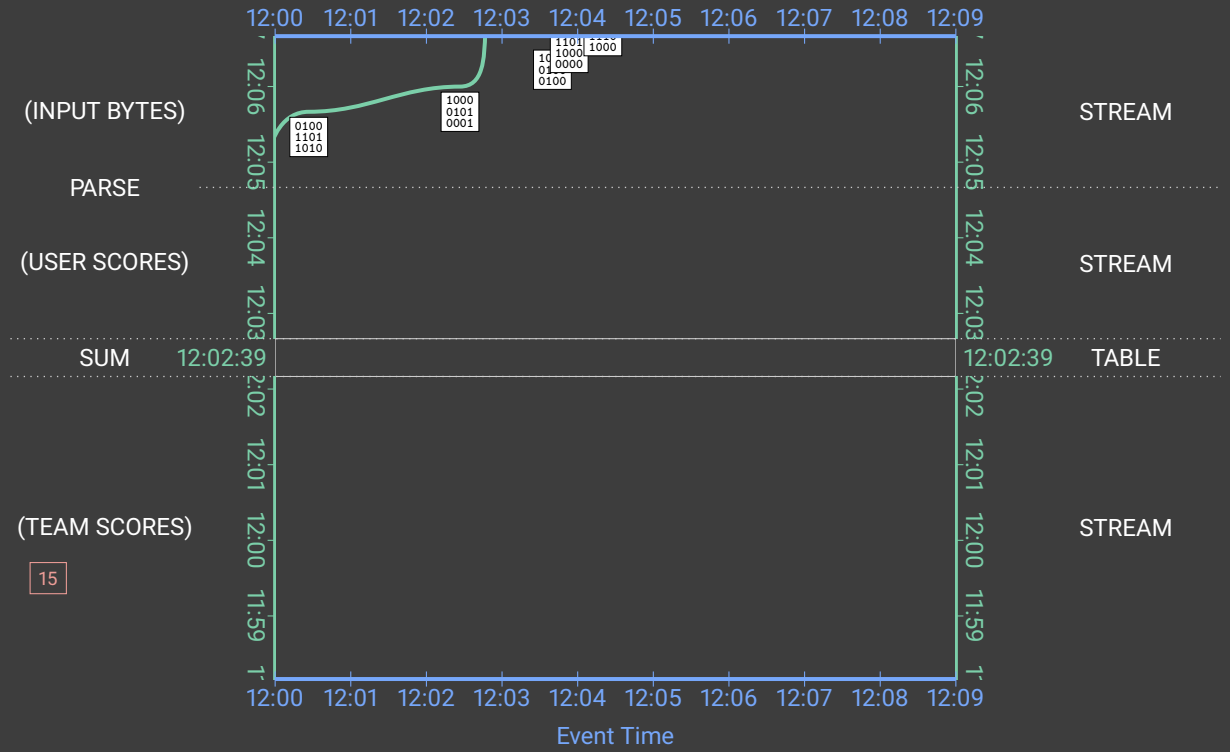
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time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12:02:39
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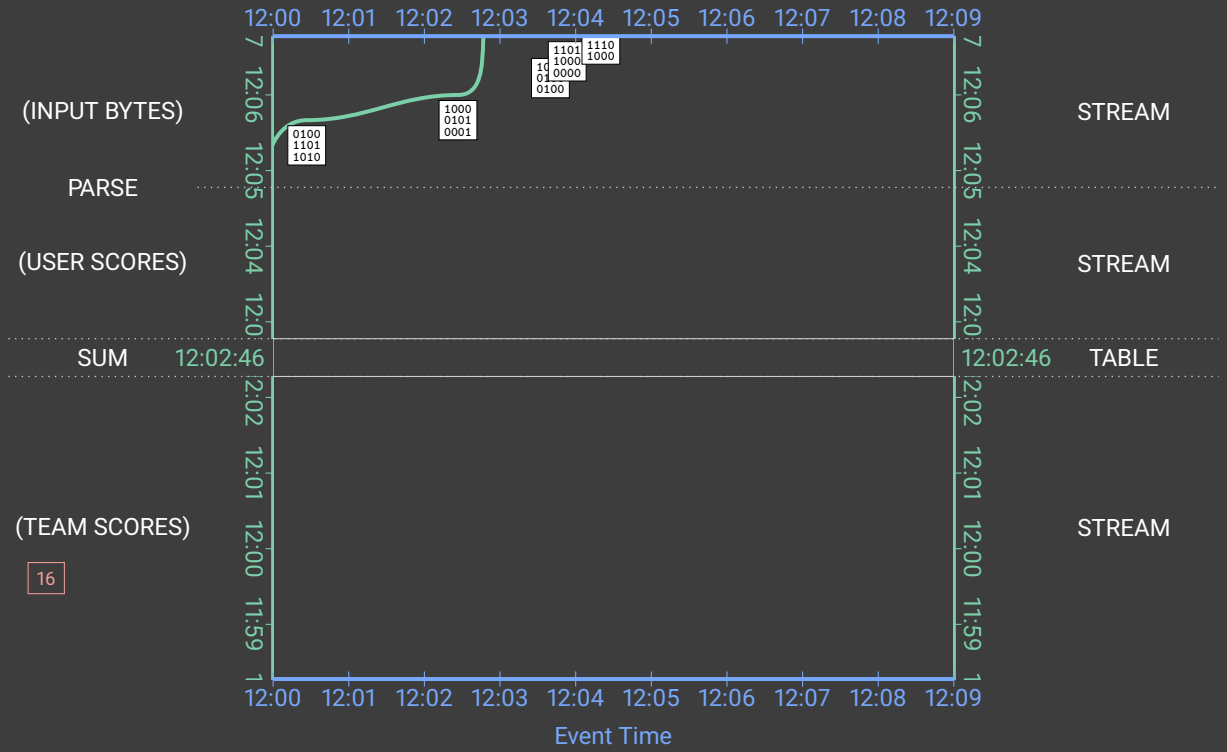
0100
STREAM
STREAM
TABLE
STREAM
Event Time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0001
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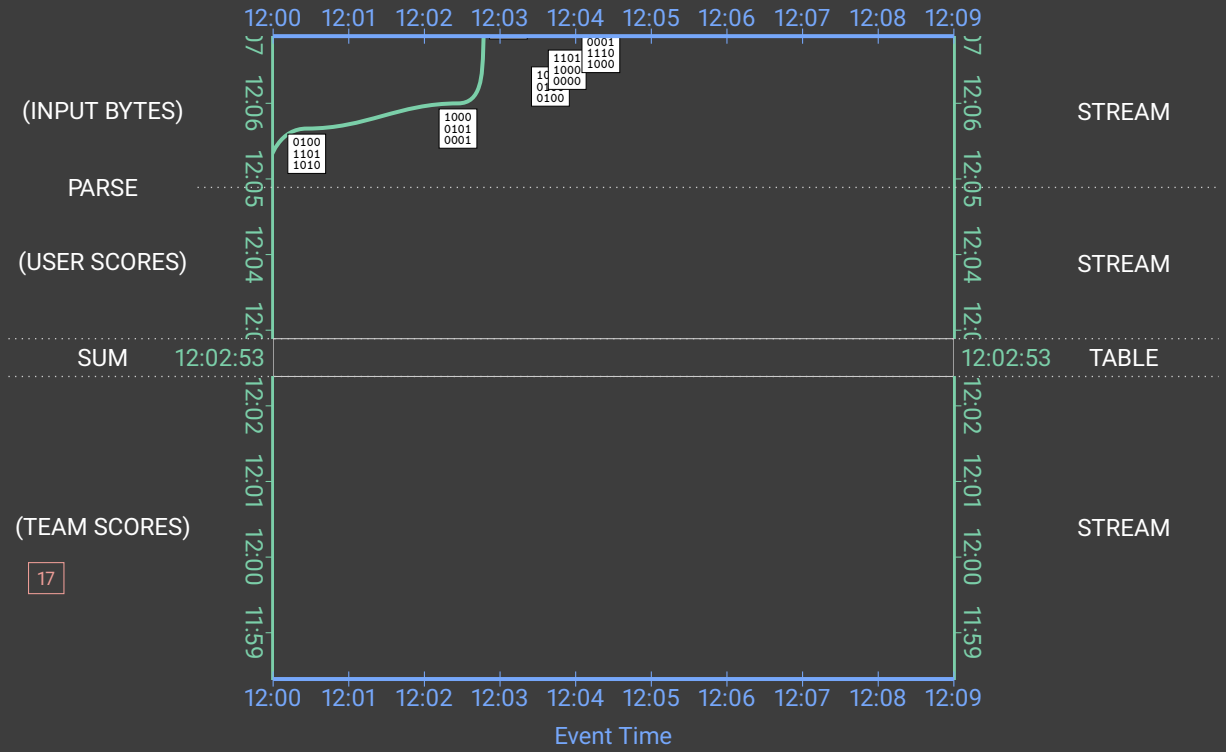
0000
0100
1110
1000
Event Time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12:02:53
TABLE
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0000
0100
0001
1110
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12:02
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11:59
Event Time

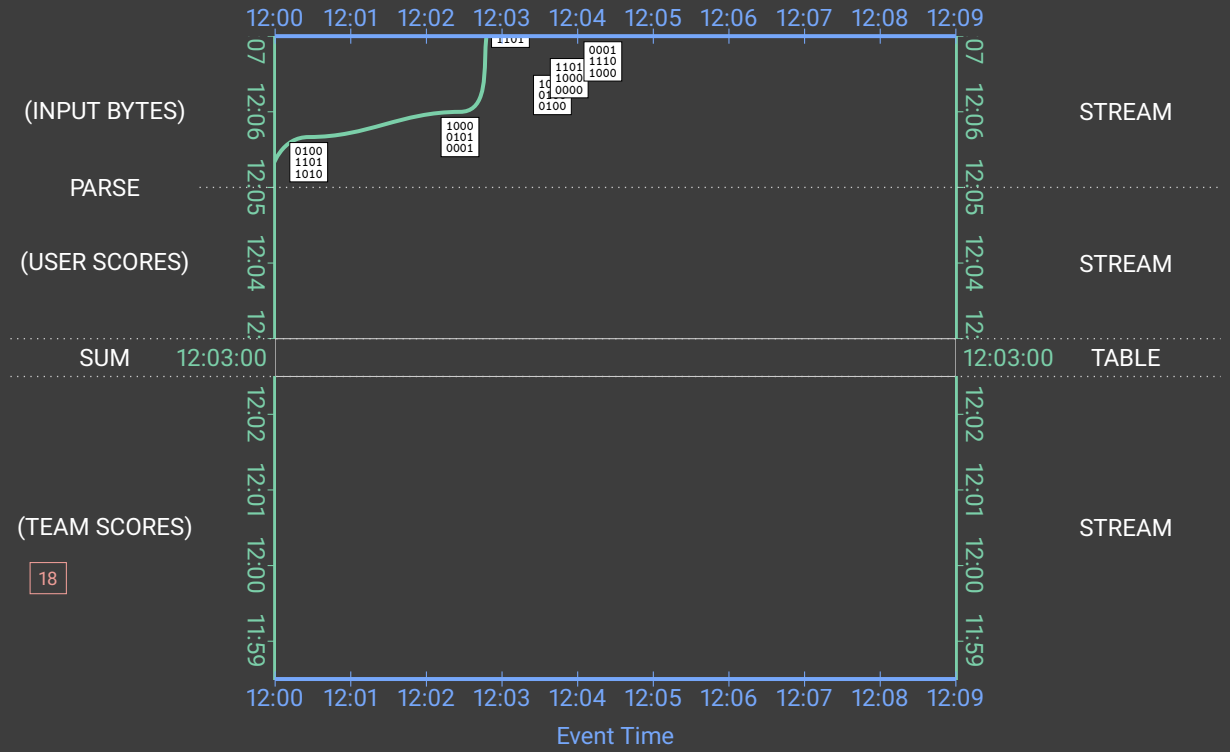
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TABLE
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0100
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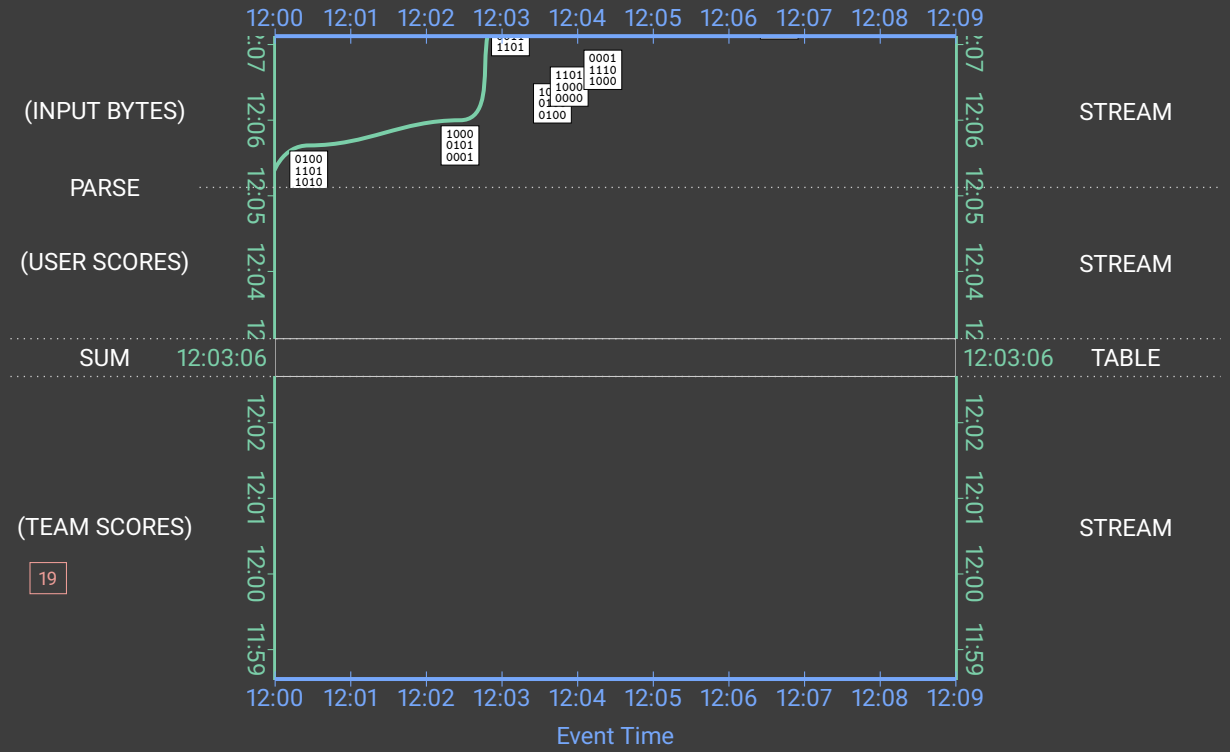
Event Time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0001
1110
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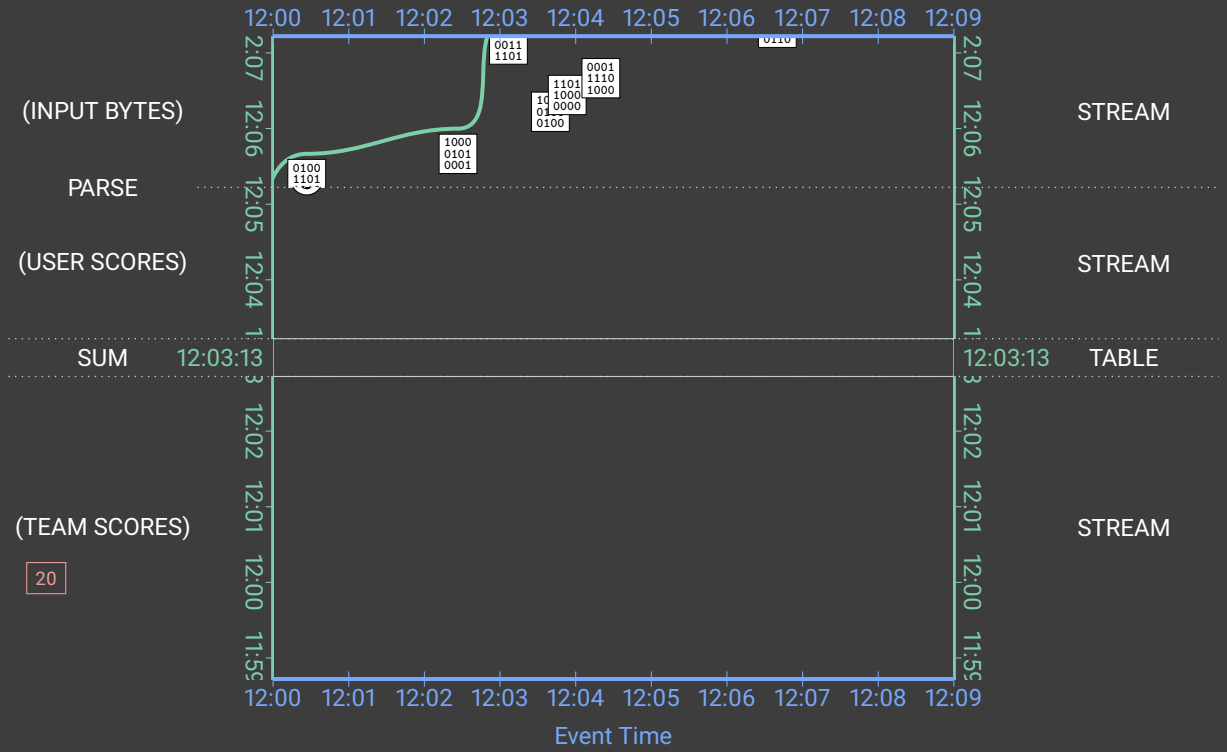
Event Time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0100
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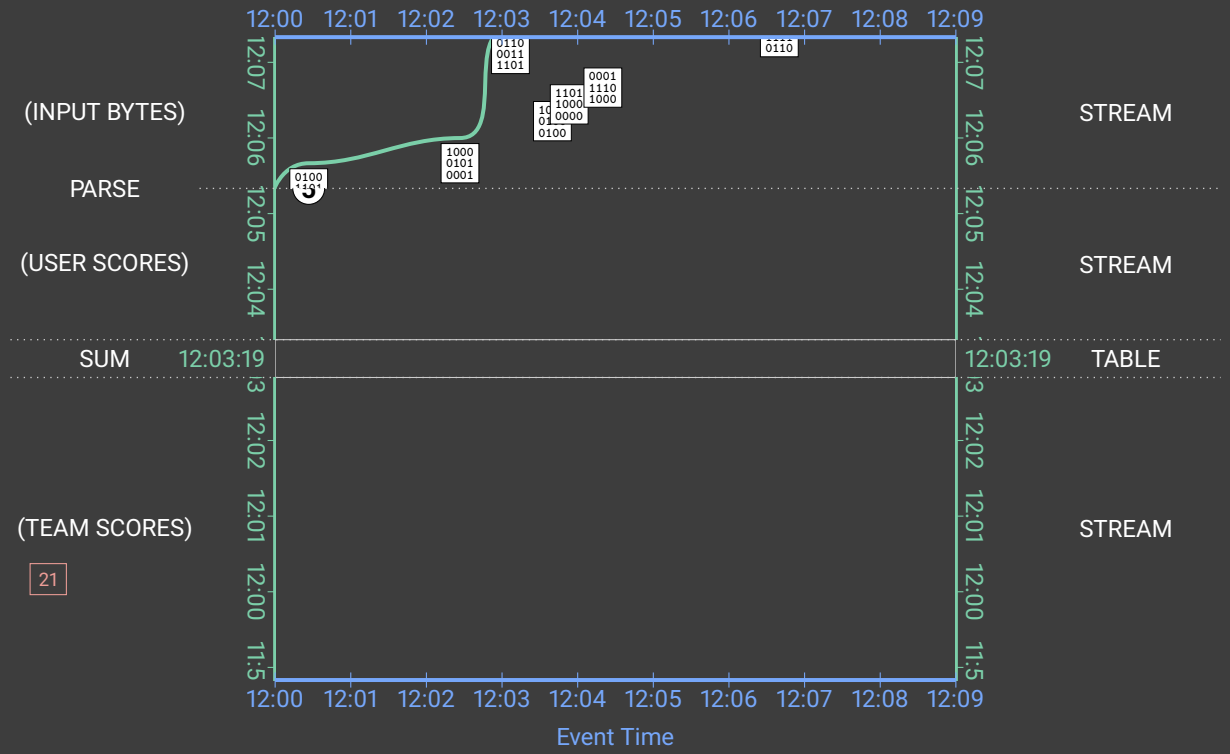
12:09
Event Time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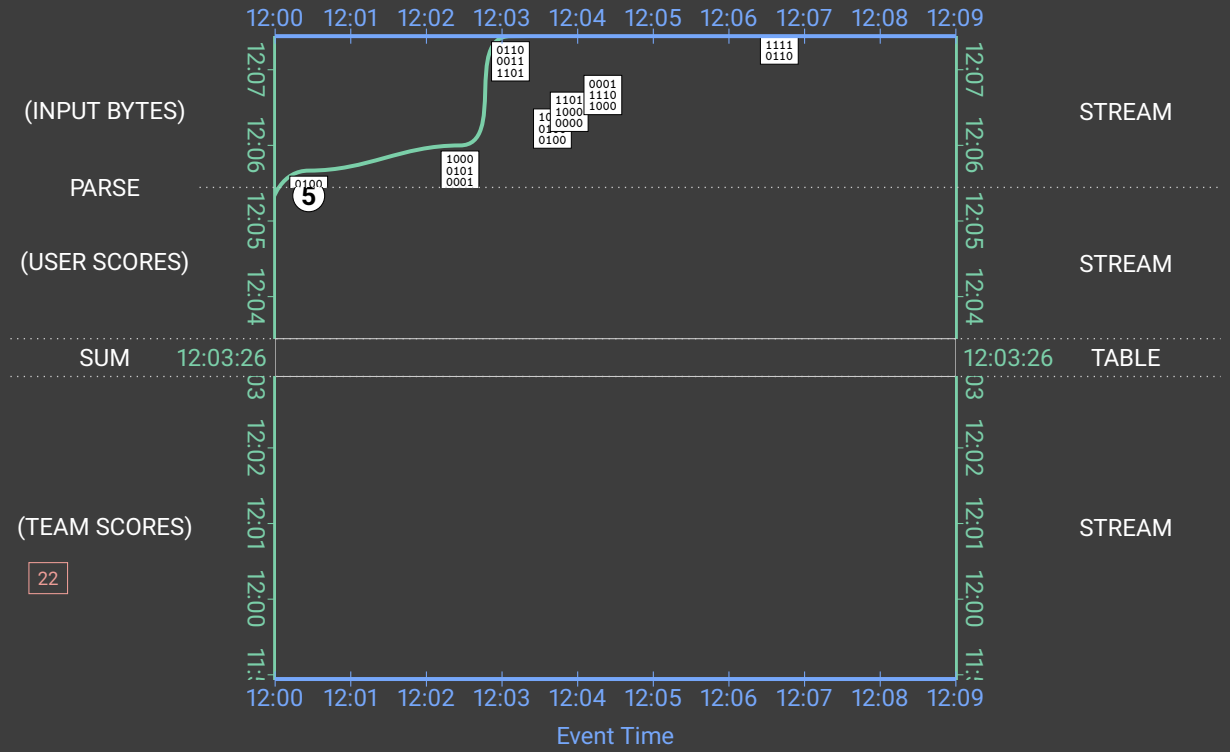
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time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12:03:26
TABLE
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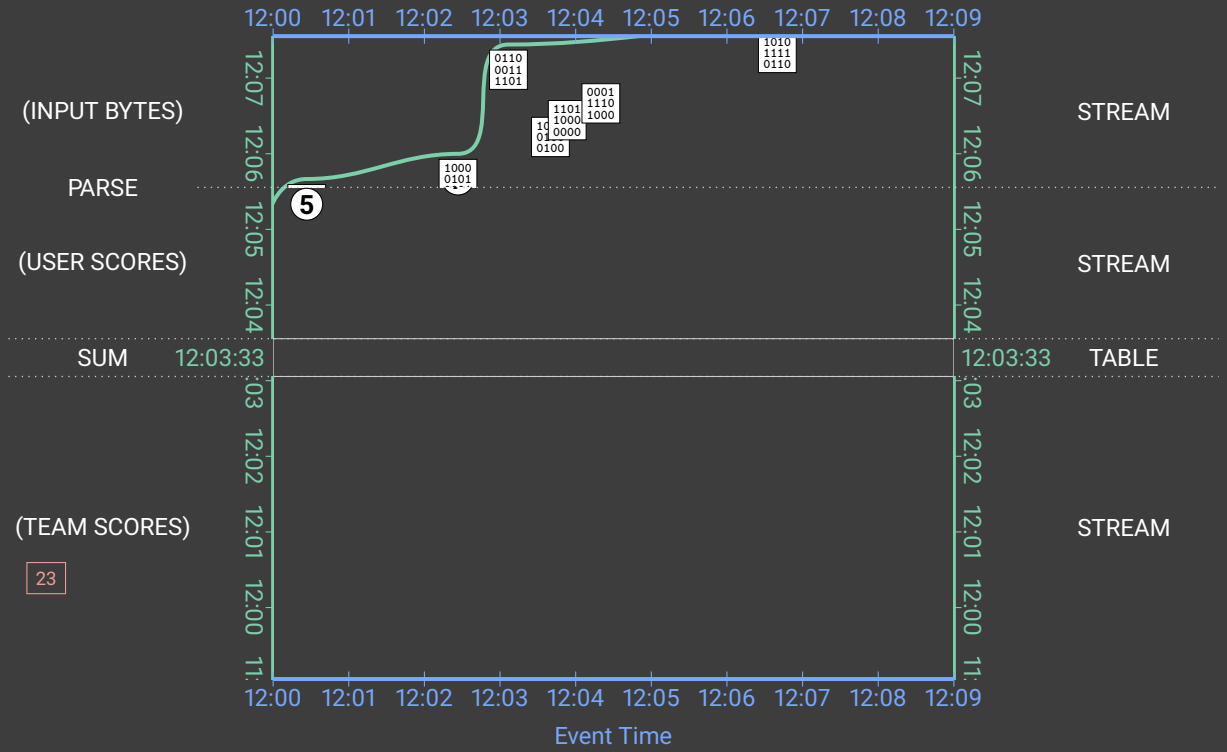
Event Time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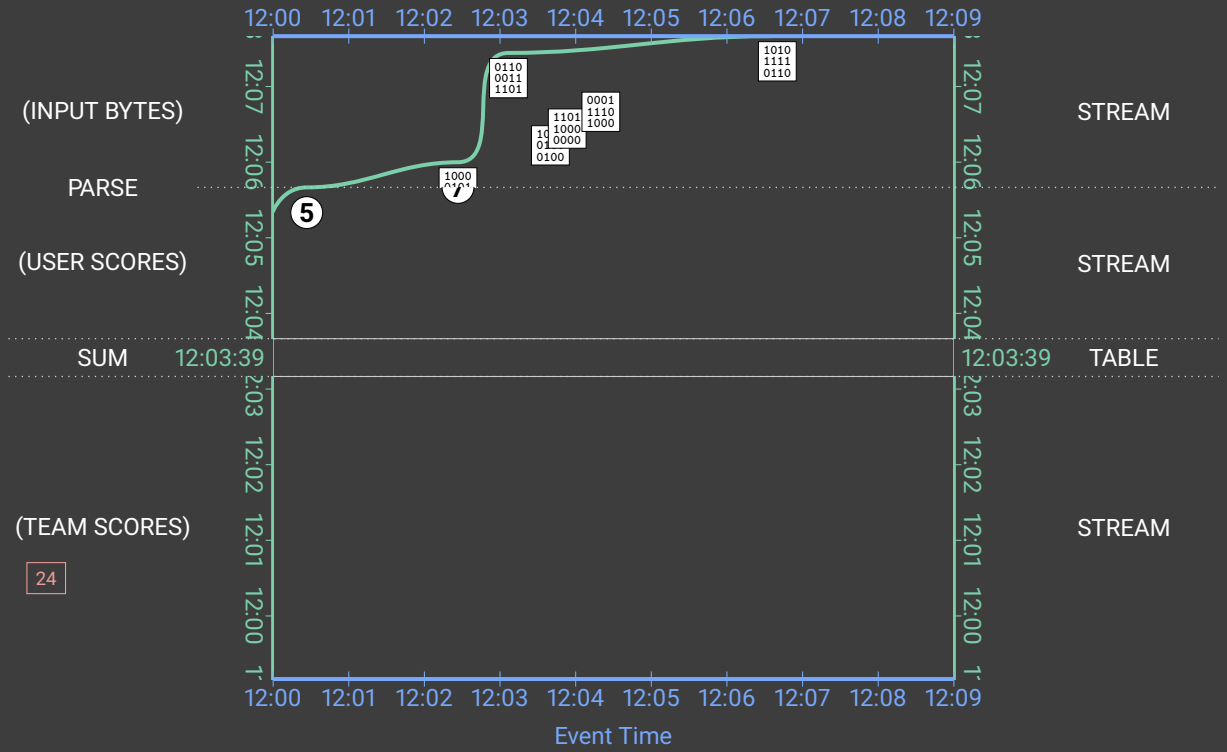
0100
5
Event Time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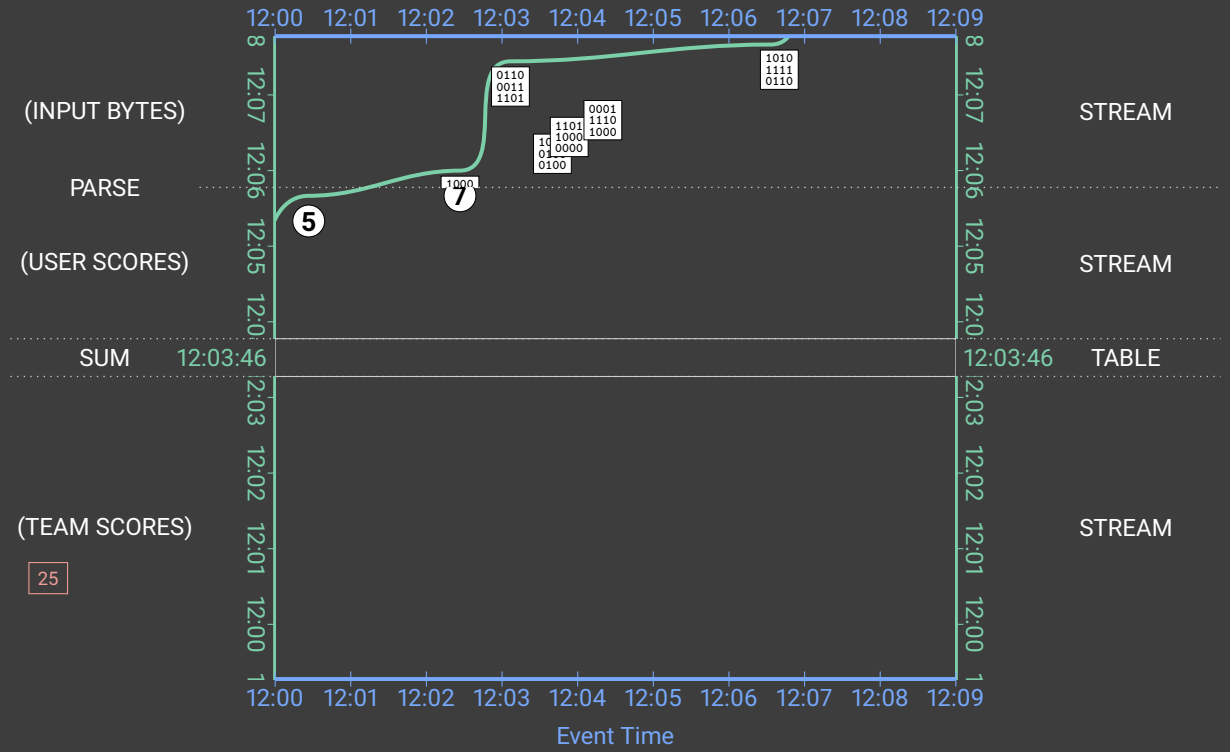
Event Time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12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time
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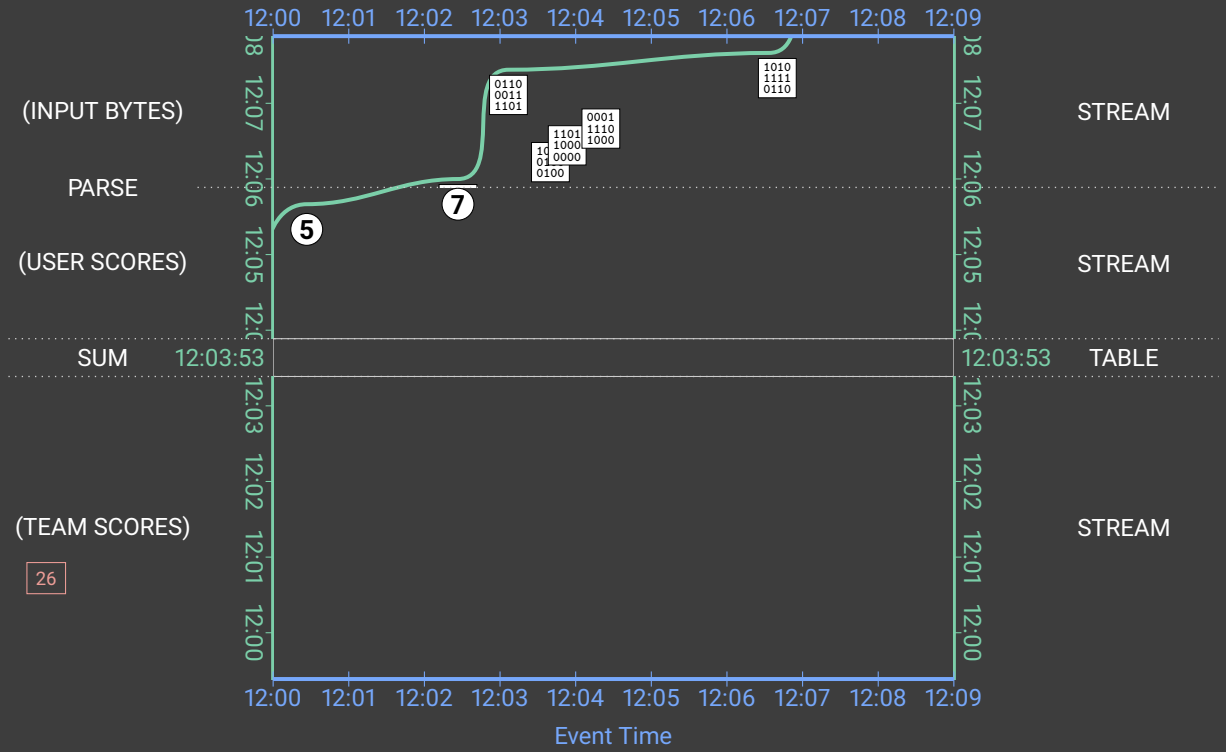
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0110
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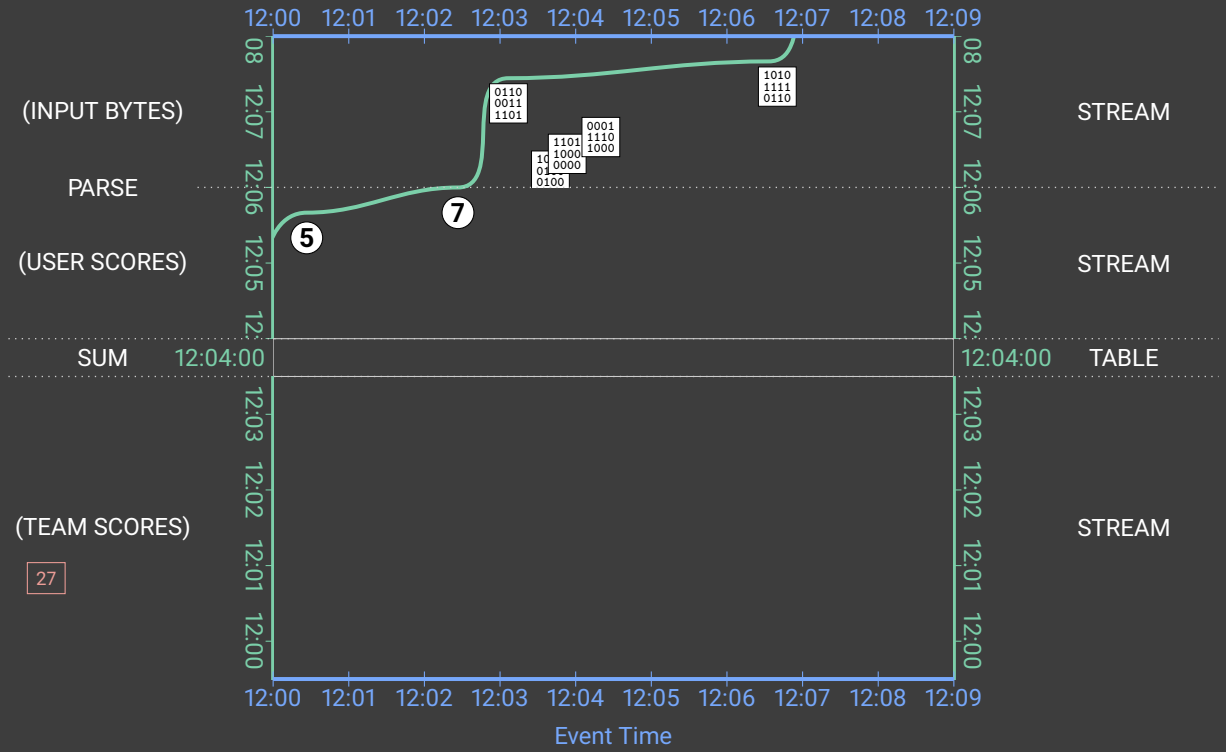
Event Time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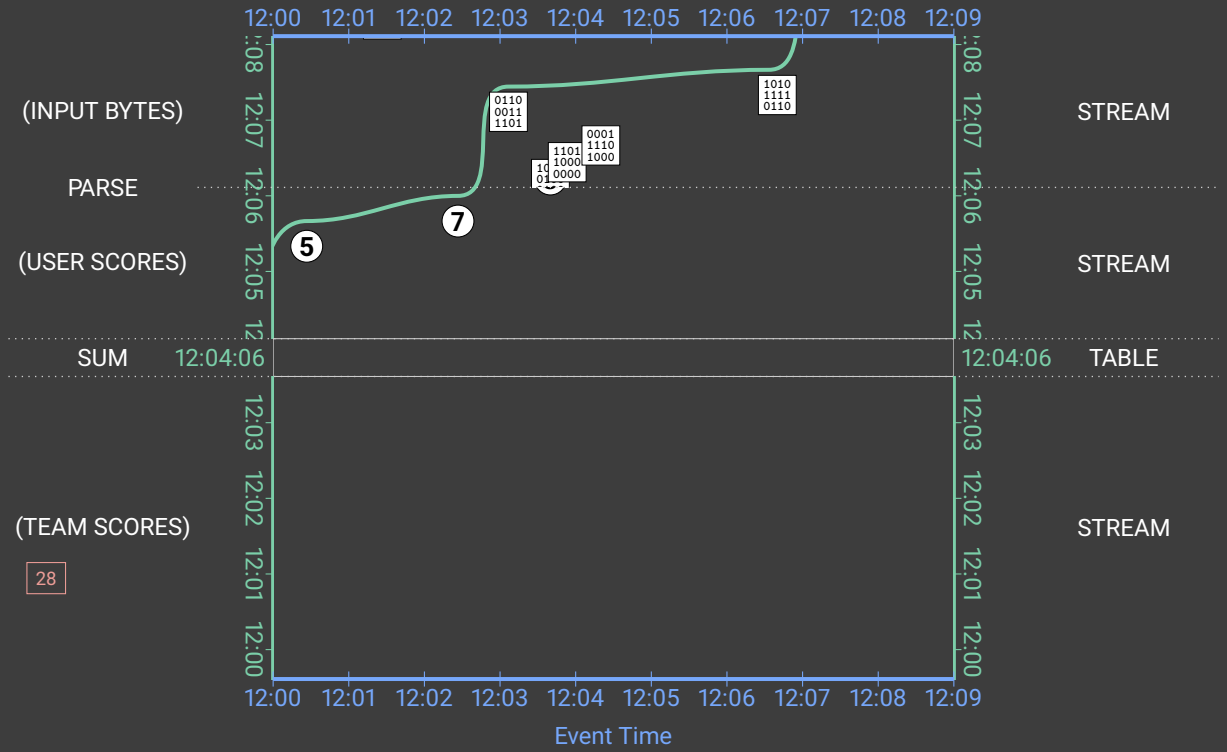
Event Time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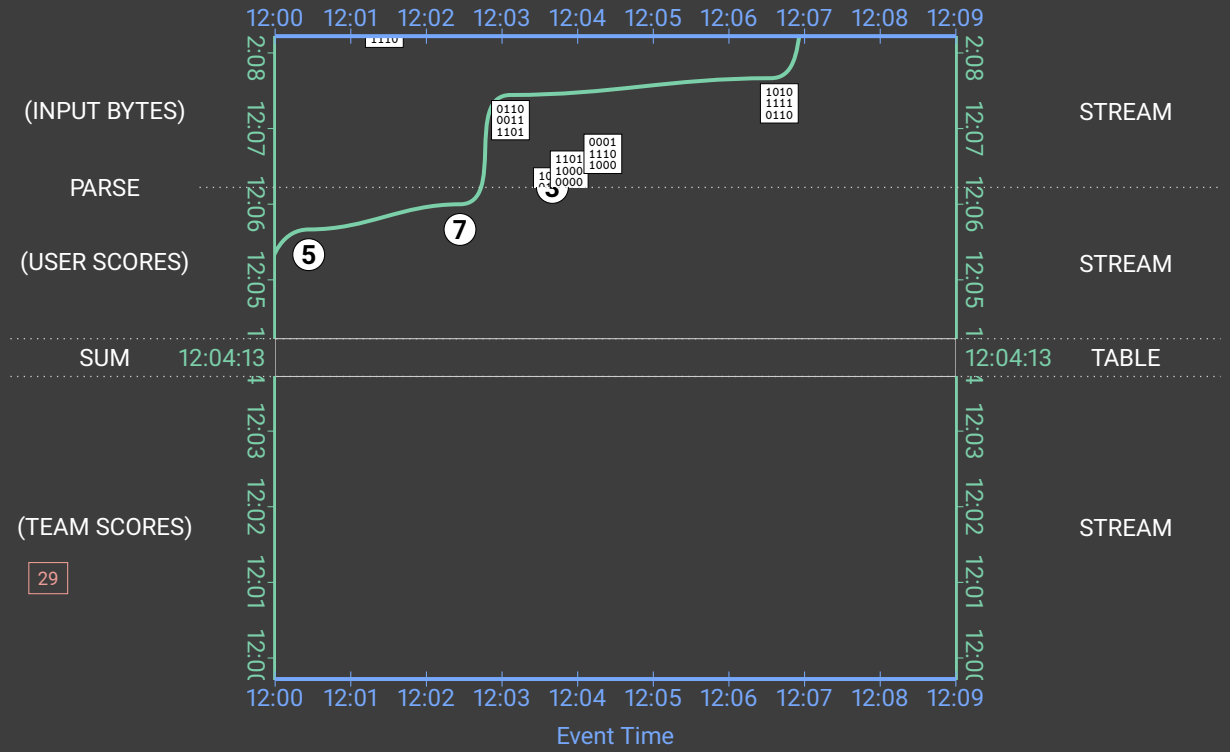
Event Time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0110
0001
1110
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1101
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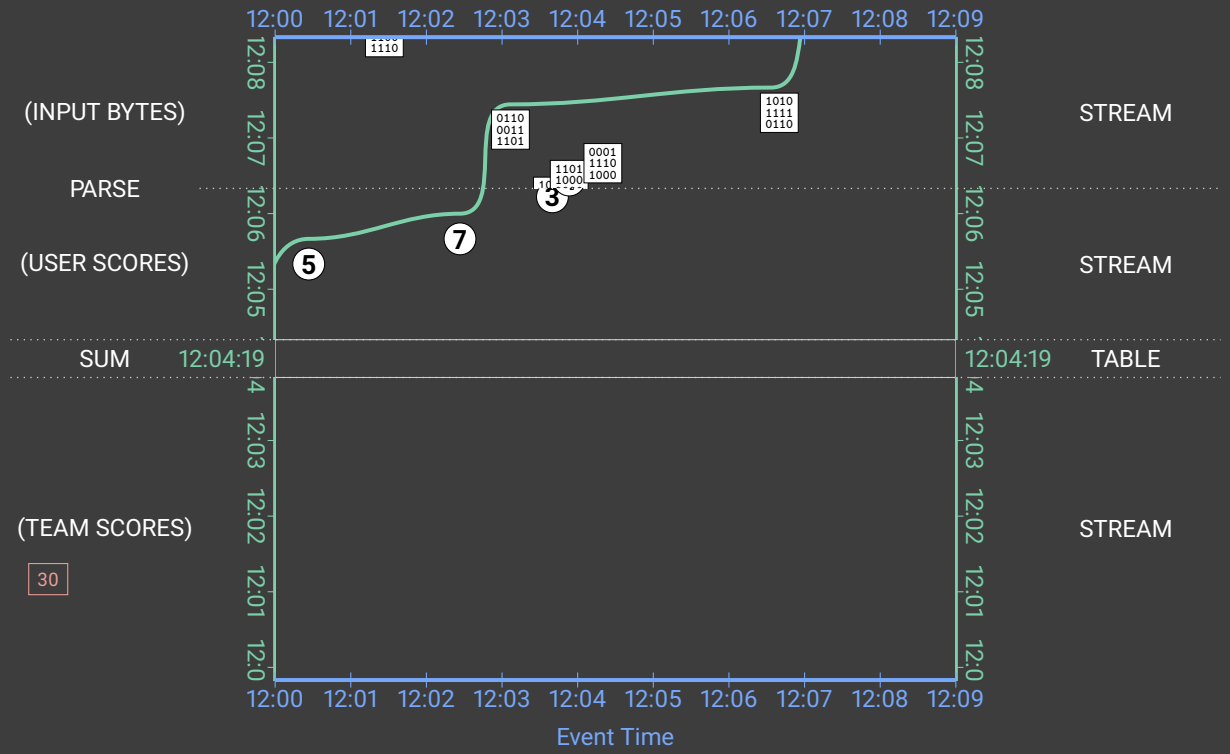
12:09
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
1110
0110
0011
1101
1010
1111
0110
0001
1110
1000
1101
1000
PARSE
3
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5
(USER SCORES)
STREAM
SUM
12:04:19
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TABLE
(TEAM SCORES)
STREAM
30
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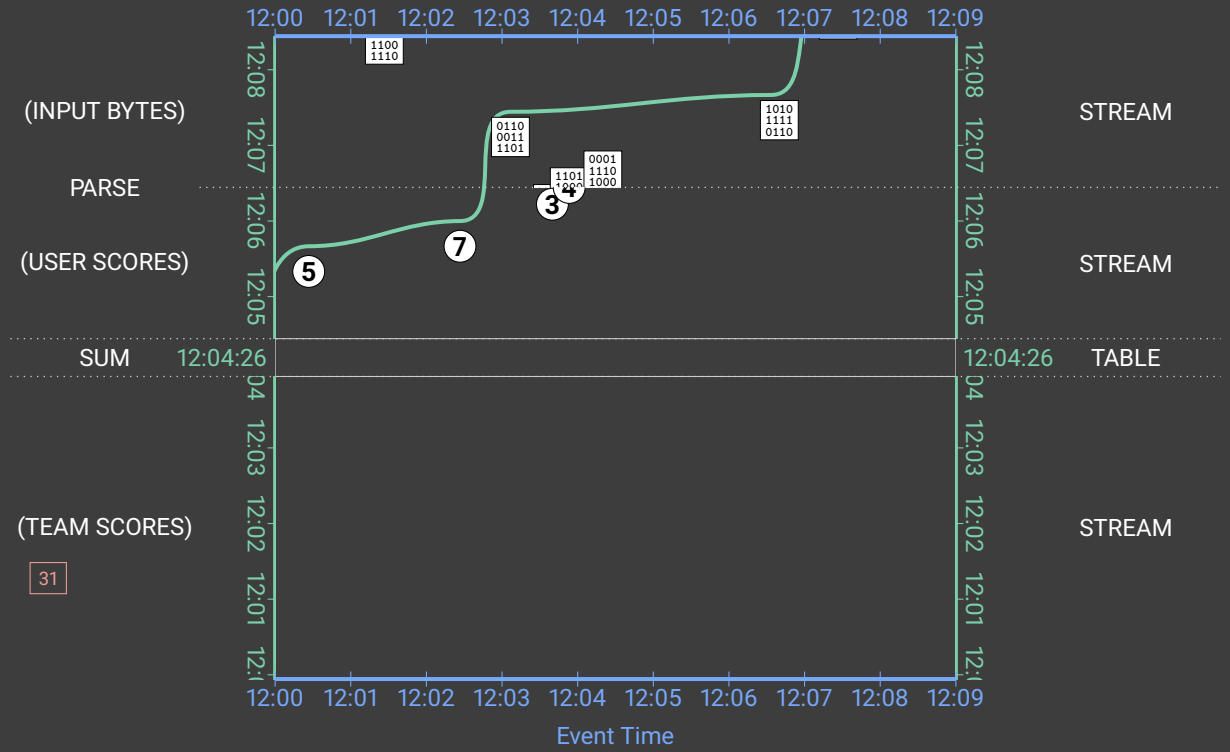
Event Time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PARSE
(USER SCORES)
STREAM
SUM
12:04:26
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(TEAM SCORES)
STREAM
31
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12:01
12:02
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12:07
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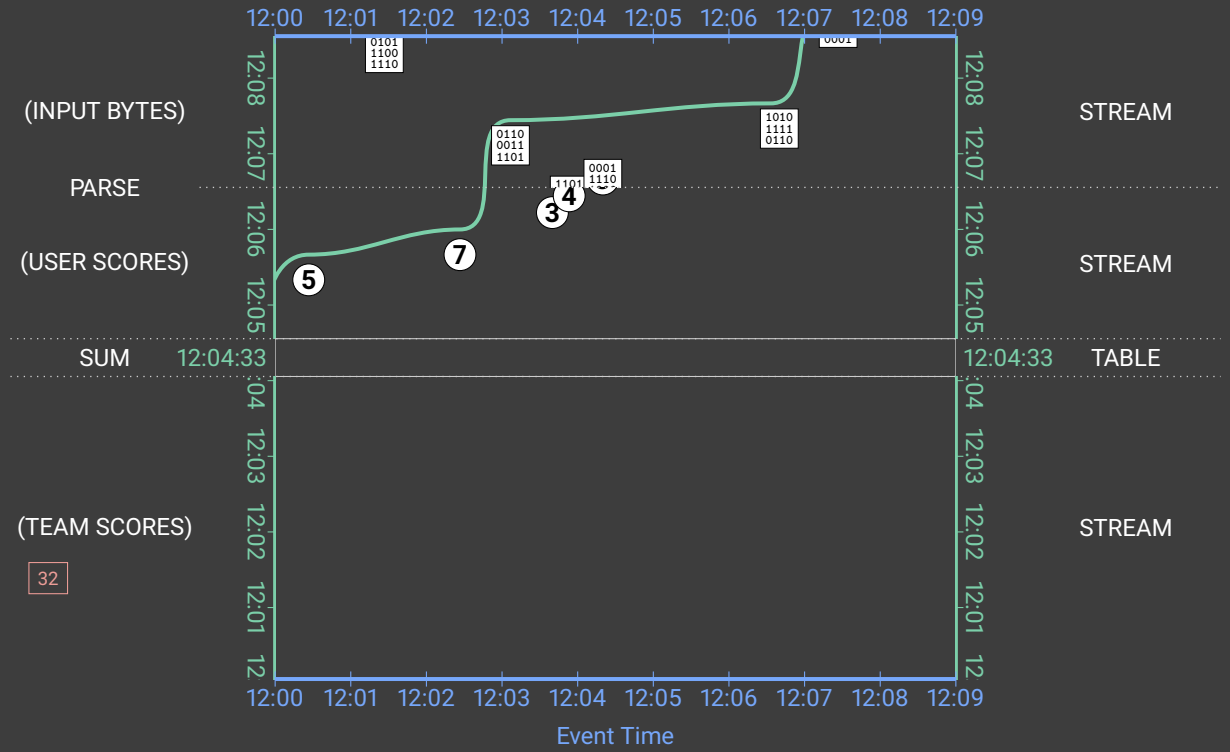
3
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:04:33
12:04:33
TABLE
(TEAM SCORES)
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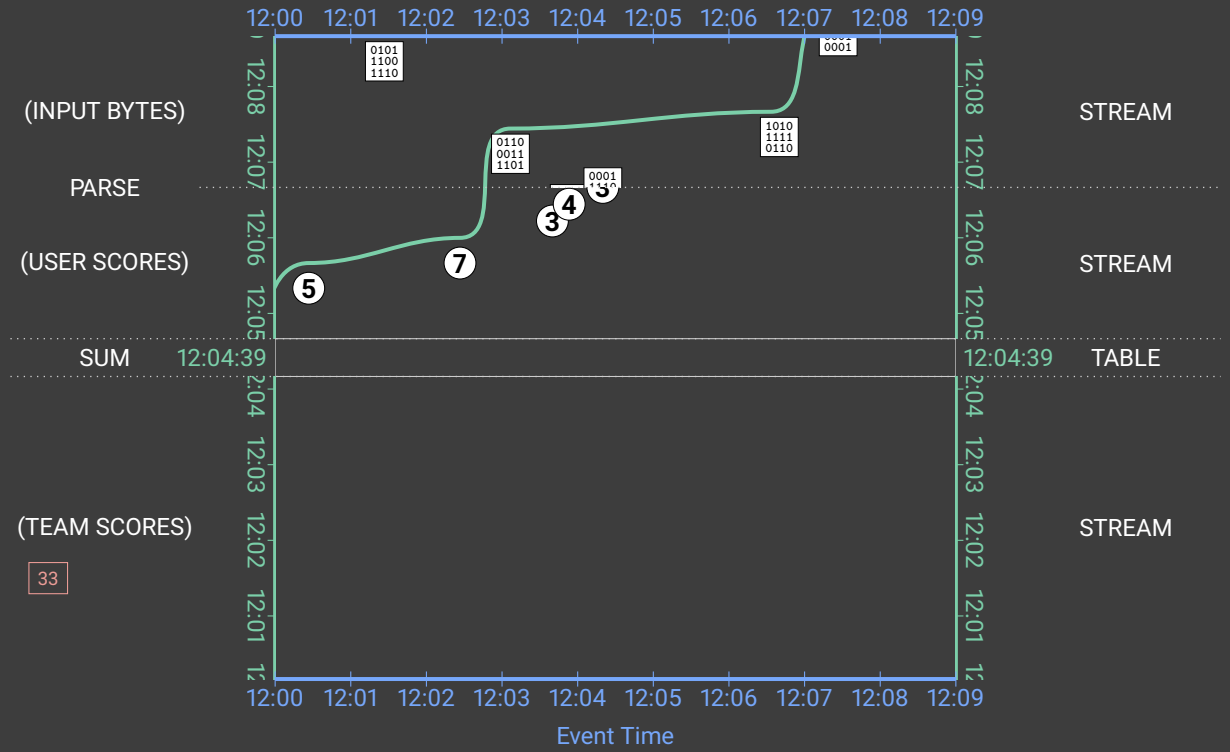
4
Event Time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(USER SCORES)
SUM
12:04:39
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STREAM
STREAM
TABLE
STREAM
0101
1100
1110
0110
0011
1101
0001
1010
1111
0110
0001
5
7
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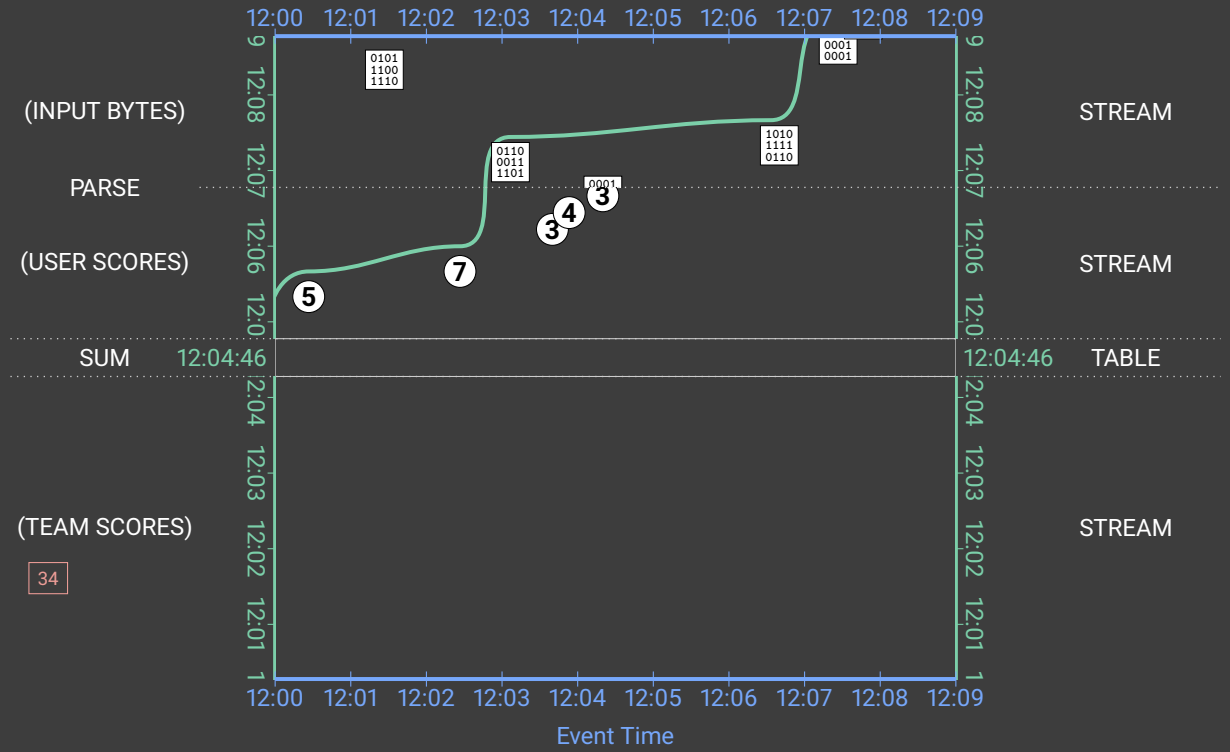
Event Time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0101 1100 1110
0110 0011 1101
0001
1010 1111 0110
0001 0001
STREAM
PARSE
(USER SCORES)
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4
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STREAM
SUM
12:04:46
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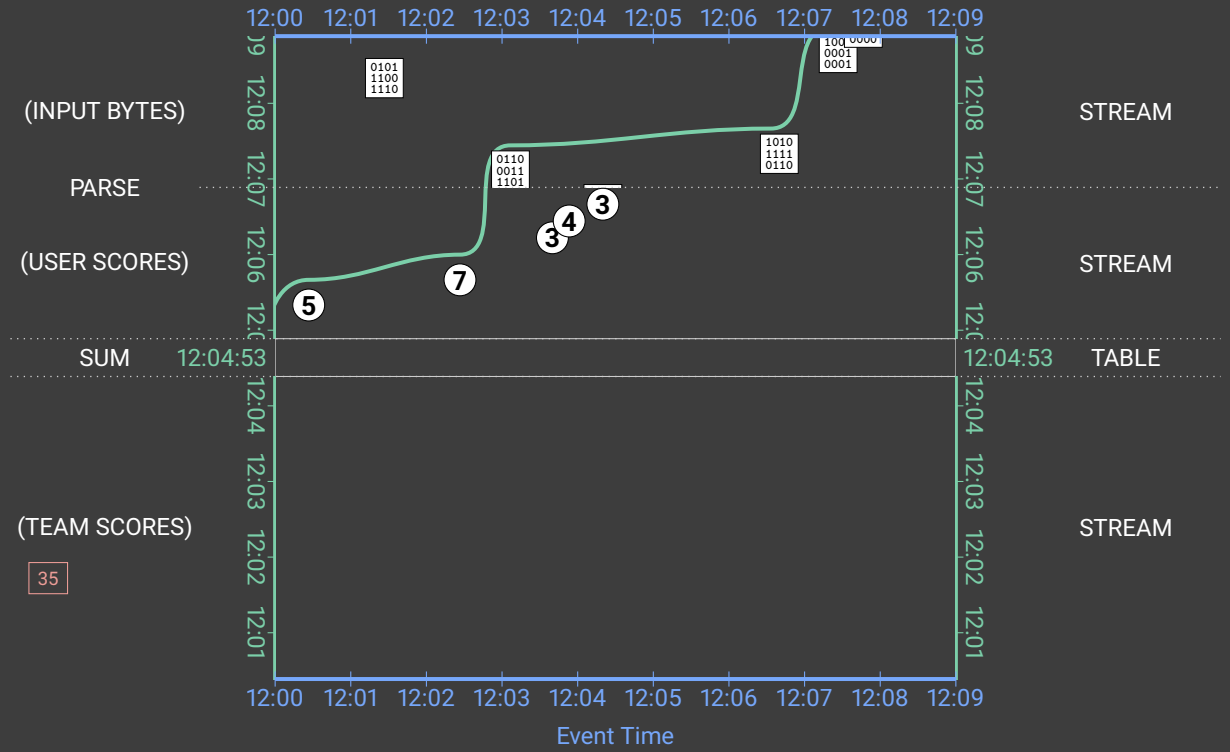
(TEAM SCORES)
34
STREAM
Event Time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35
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TABLE
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0101
1100
1110
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0011
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0001
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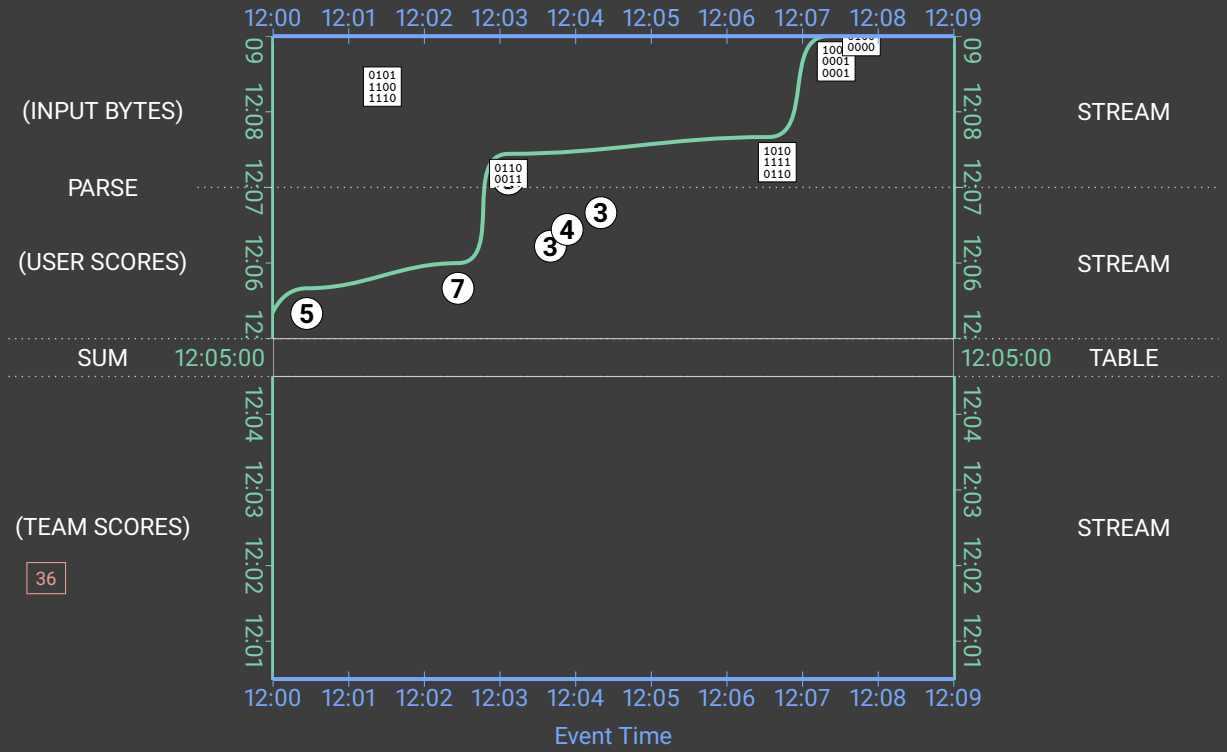
12:09
Event Time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SUM
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36
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TABLE
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1100
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0110
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0001
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7
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4
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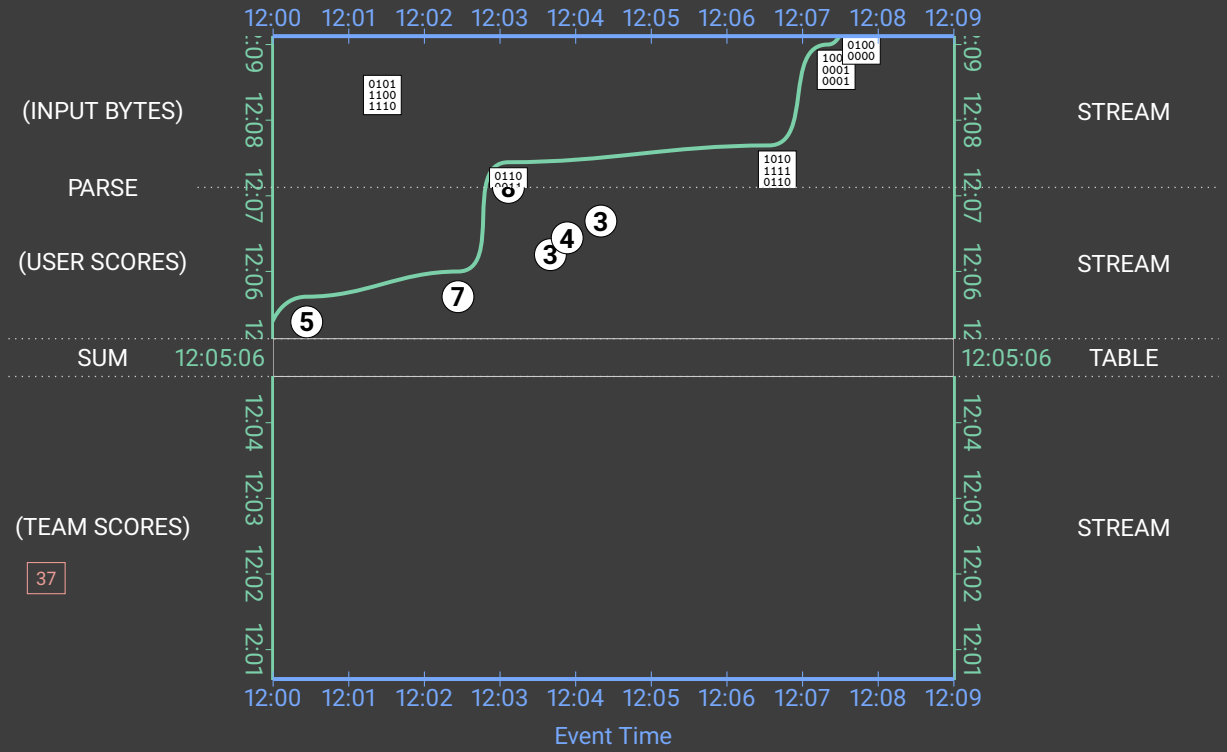
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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0100 0000
1000 0001 0001
STREAM
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0110
1010 1111 0110
(USER SCORES)
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4
3
STREAM
SUM
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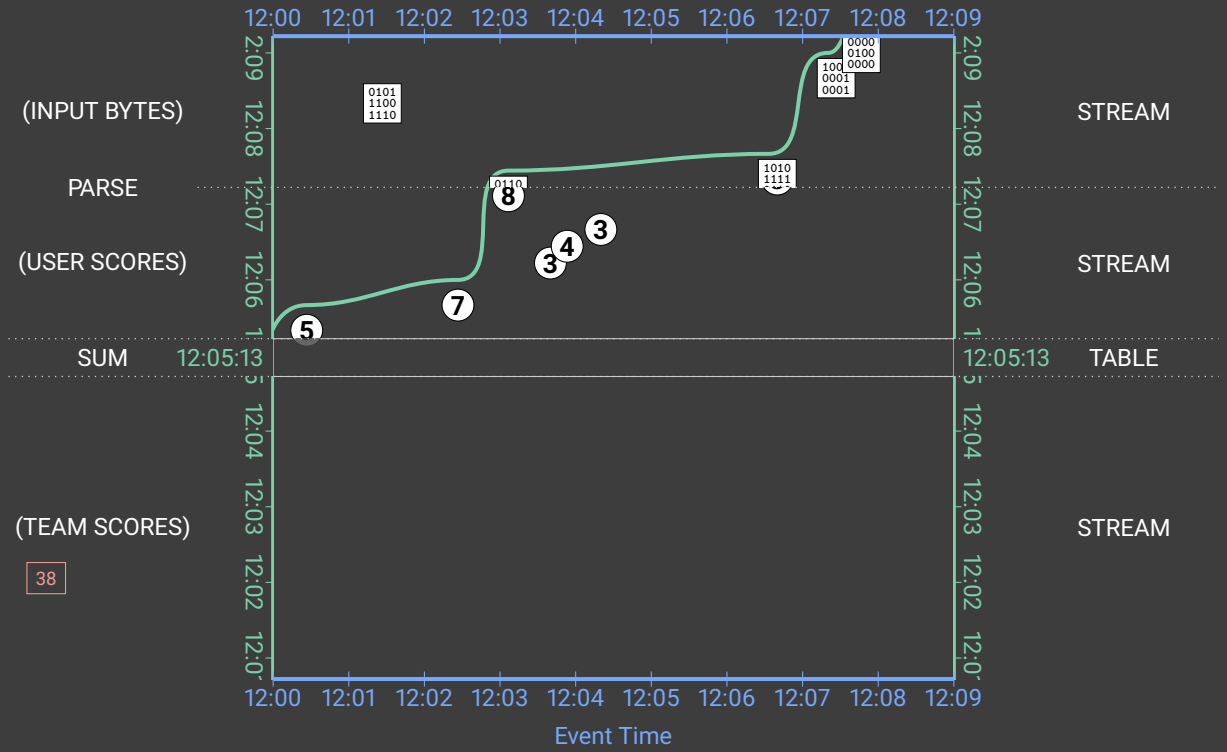
12:05:06
TABLE
(TEAM SCORES)
STREAM
37
Event Time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SUM
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(TEAM SCORES)
38
STREAM
STREAM
TABLE
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1100
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0100
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100
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12:09
Event Time

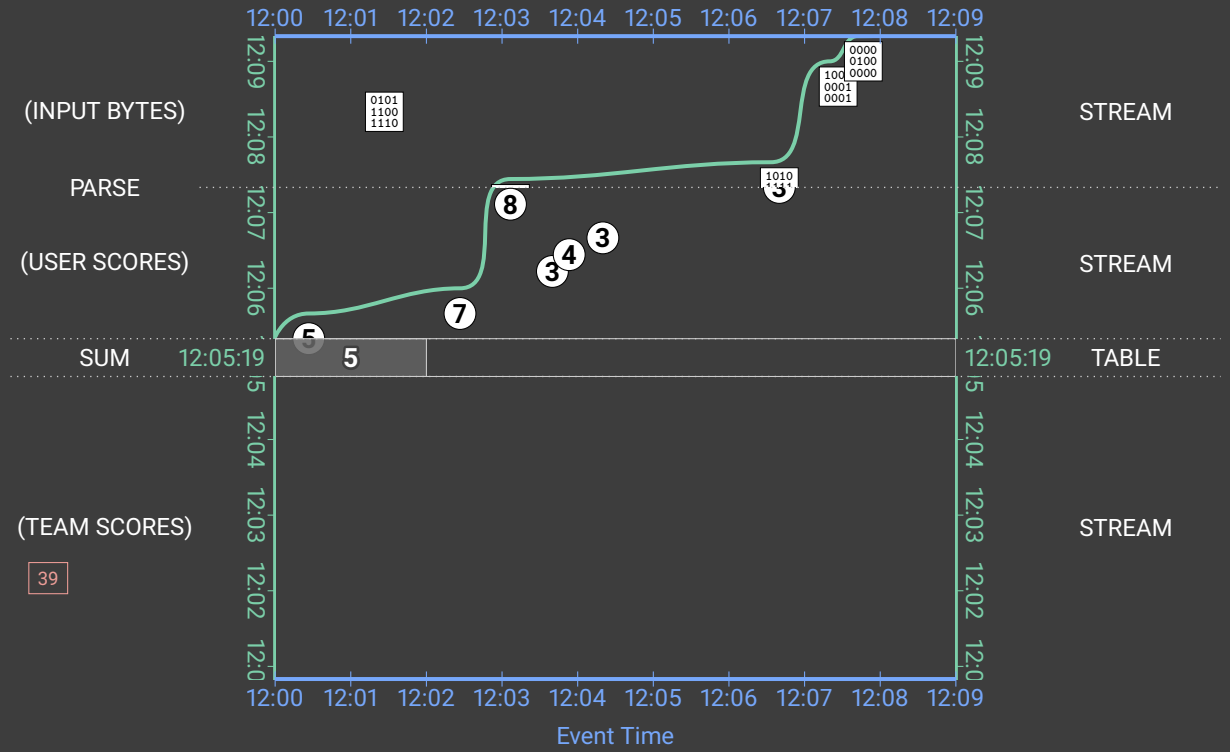
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TABLE
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39
STREAM
STREAM
STREAM
0101
1100
1110
0000
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0001
0001
1010
5
7
3
4
3
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12:00
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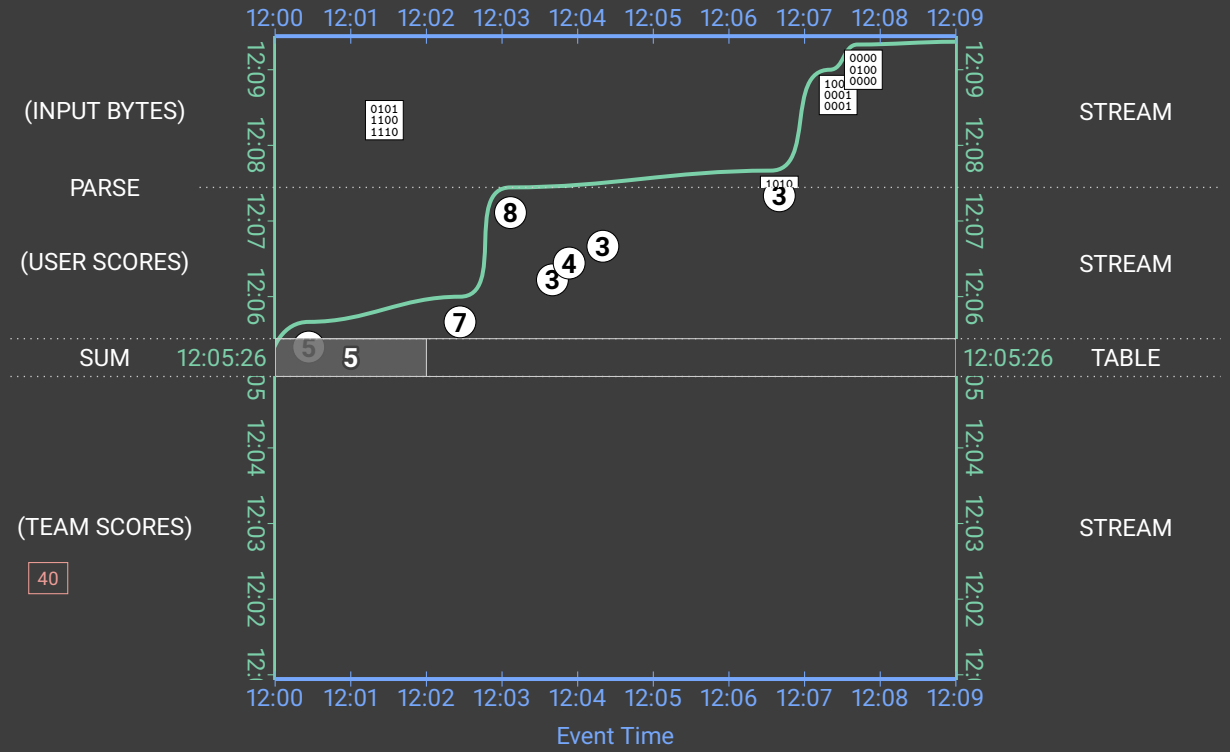
Event Time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12:05:26
(TEAM SCORES)
40
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1110
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STREAM
STREAM
TABLE
STREAM
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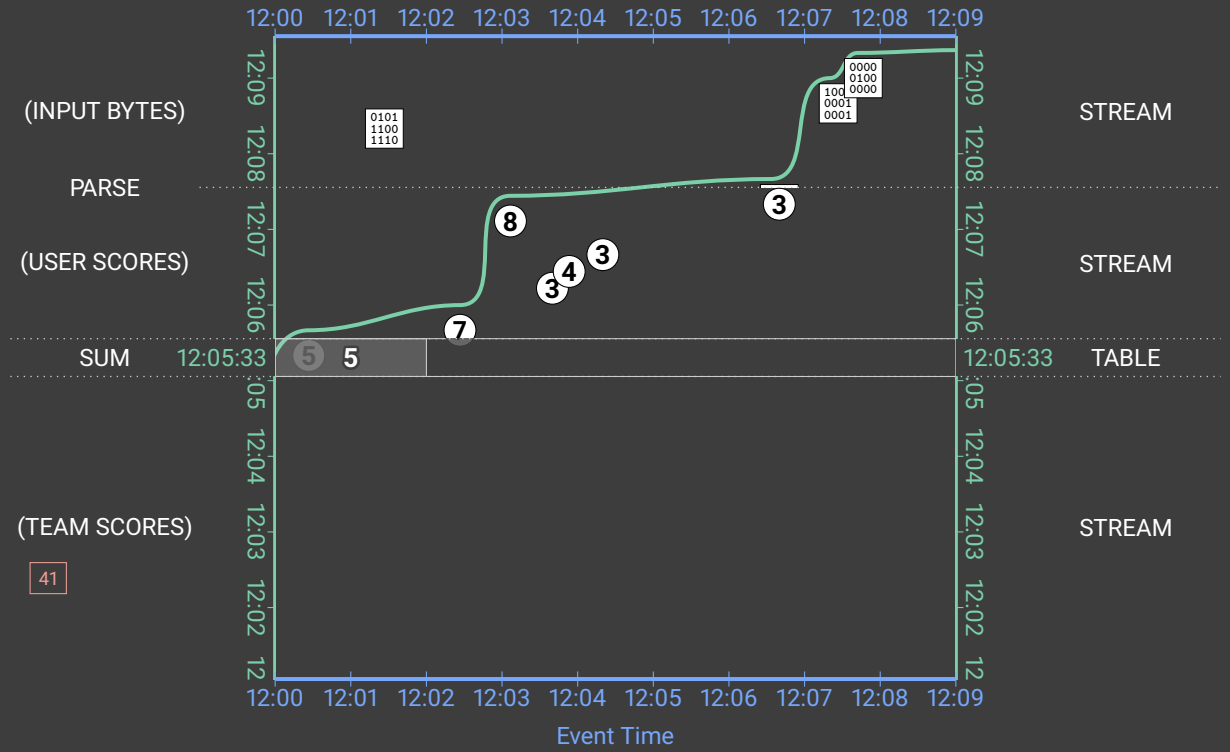
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
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1110
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0100
0000
100
0001
0001
STREAM
PARSE
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8
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STREAM
SUM
12:05:33
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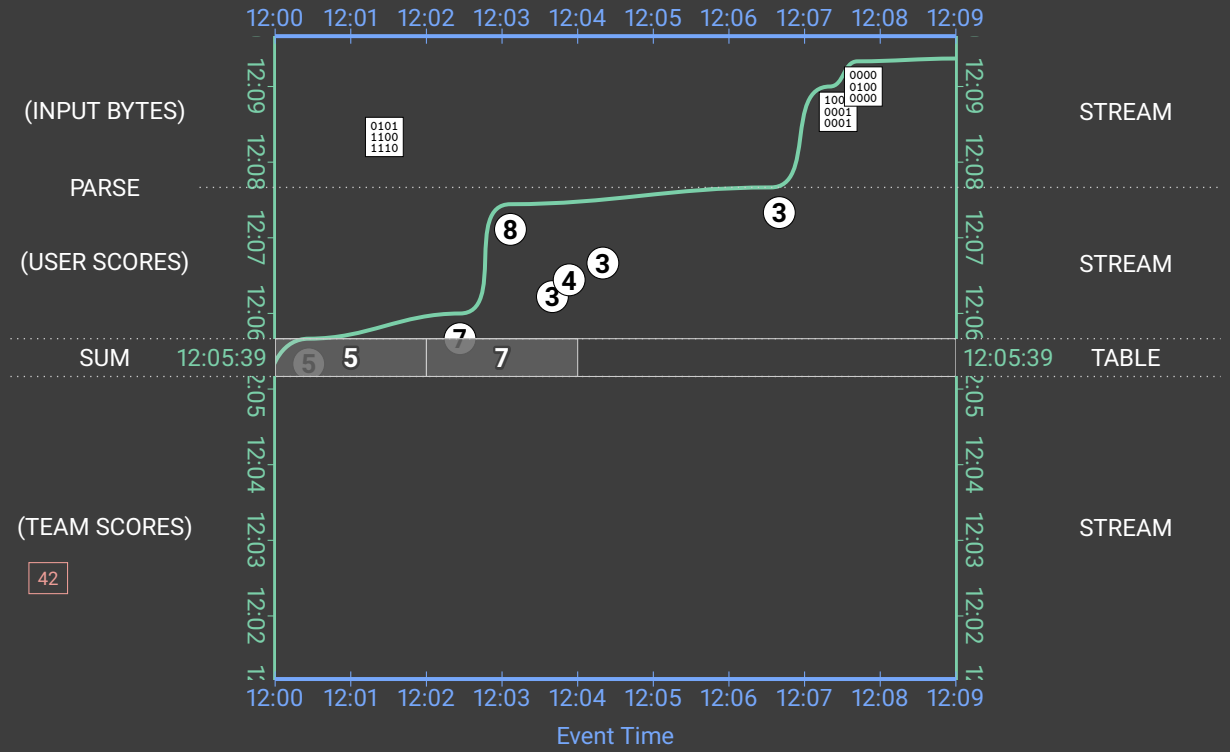
TABLE
(TEAM SCORES)
41
STREAM
Event Time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42
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100
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0001
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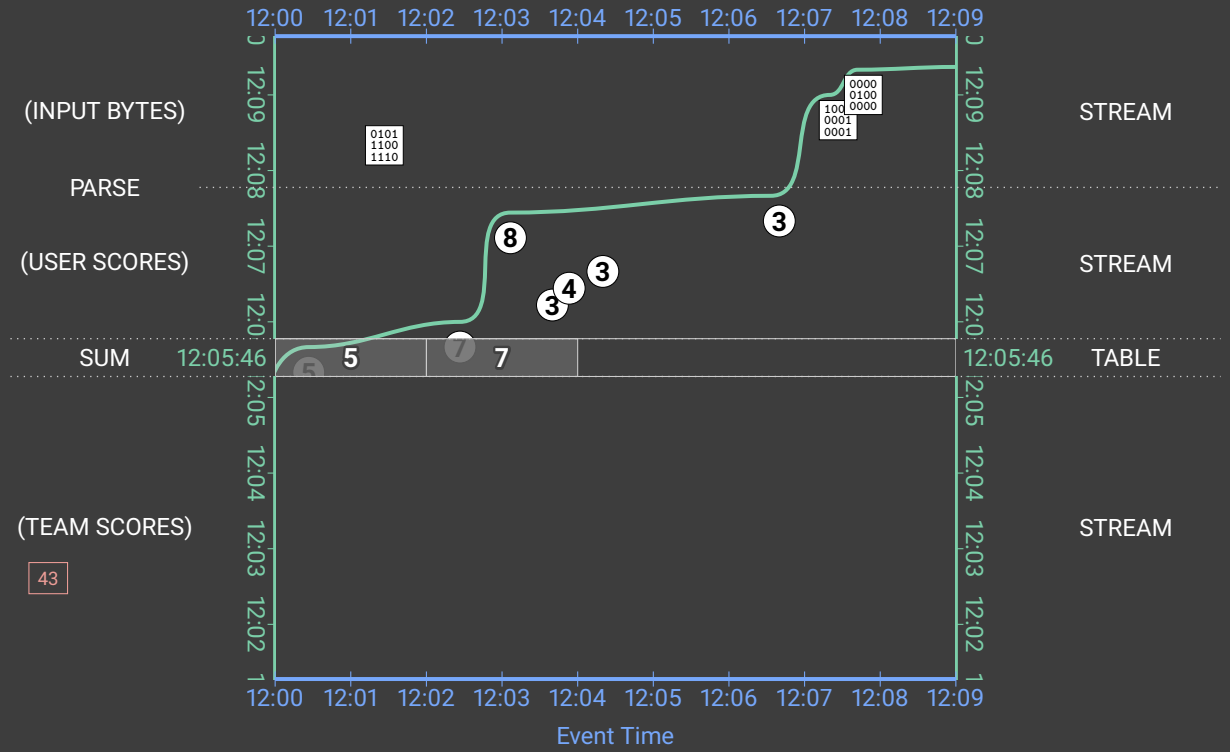
Event Time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(TEAM SCORES)
43
STREAM
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TABLE
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1100
1110
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0100
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1001
0001
0001
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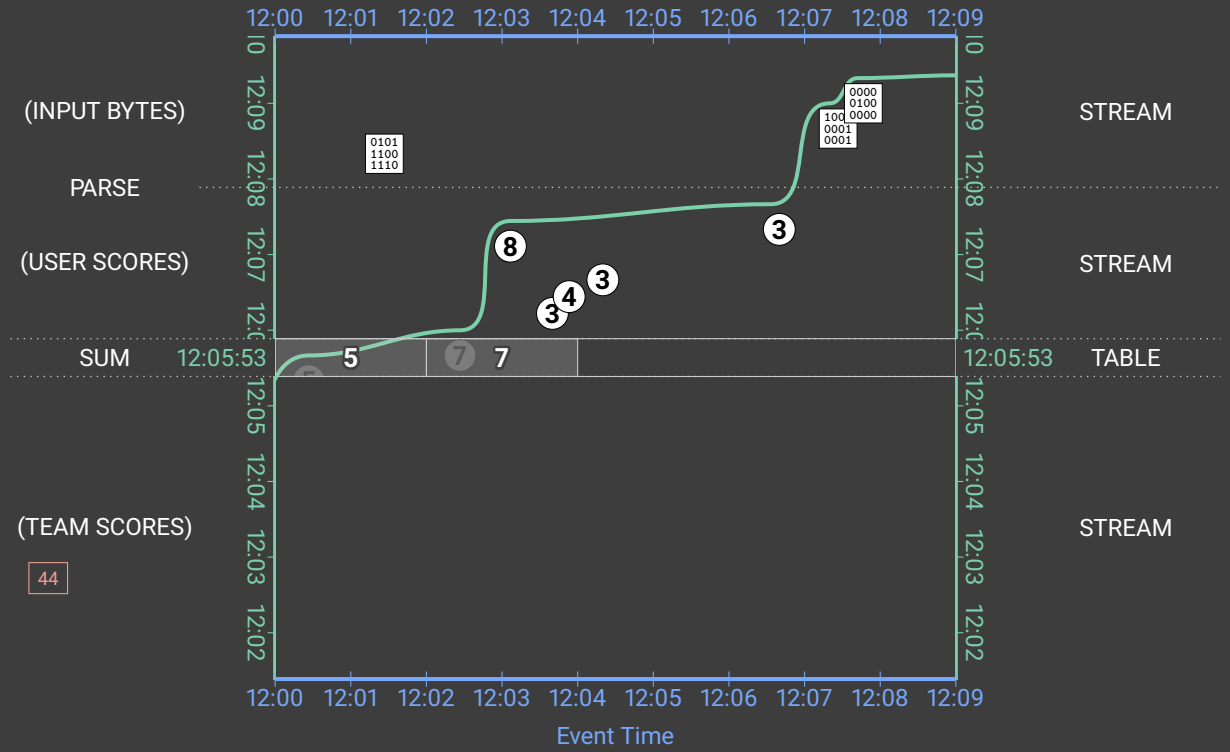
Event Time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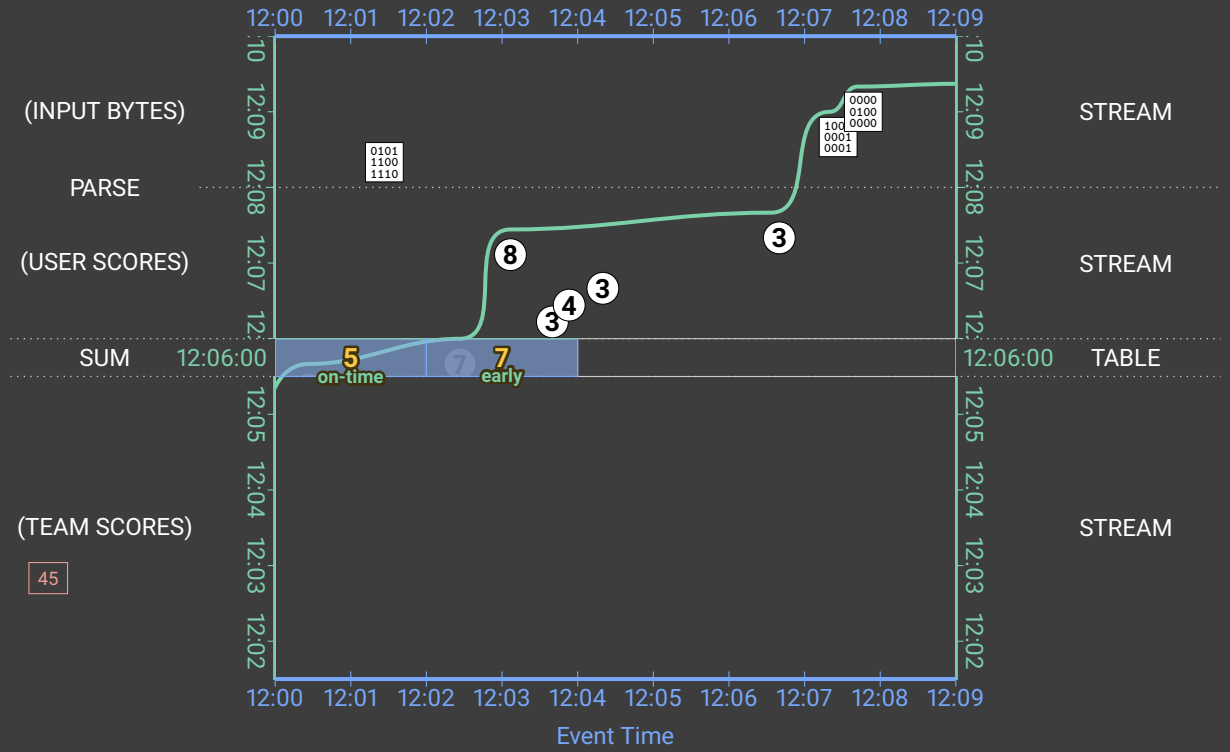
Event Time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45
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TABLE
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1100
1110
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1000
0001
0001
8
3
3
4
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on-time
7
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early
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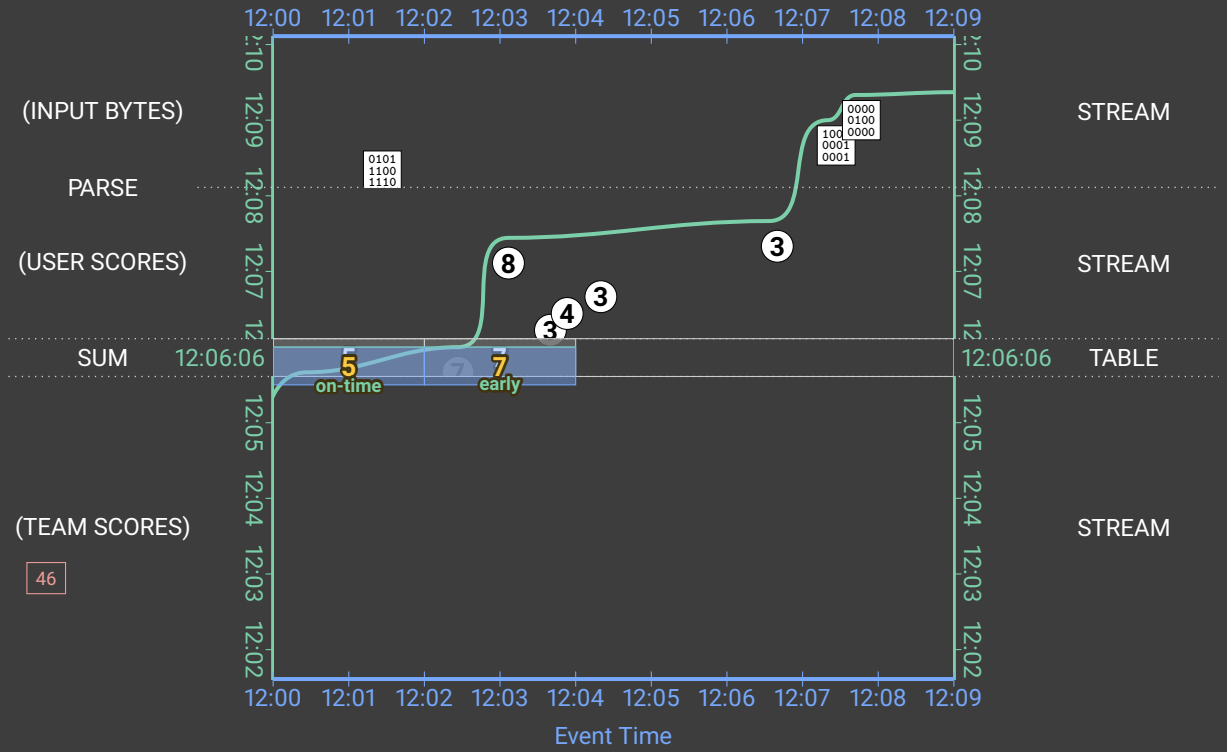
12:09
Event Time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STREAM
TABLE
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1110
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100
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0001
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3
3
4
3
5
on-time
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early
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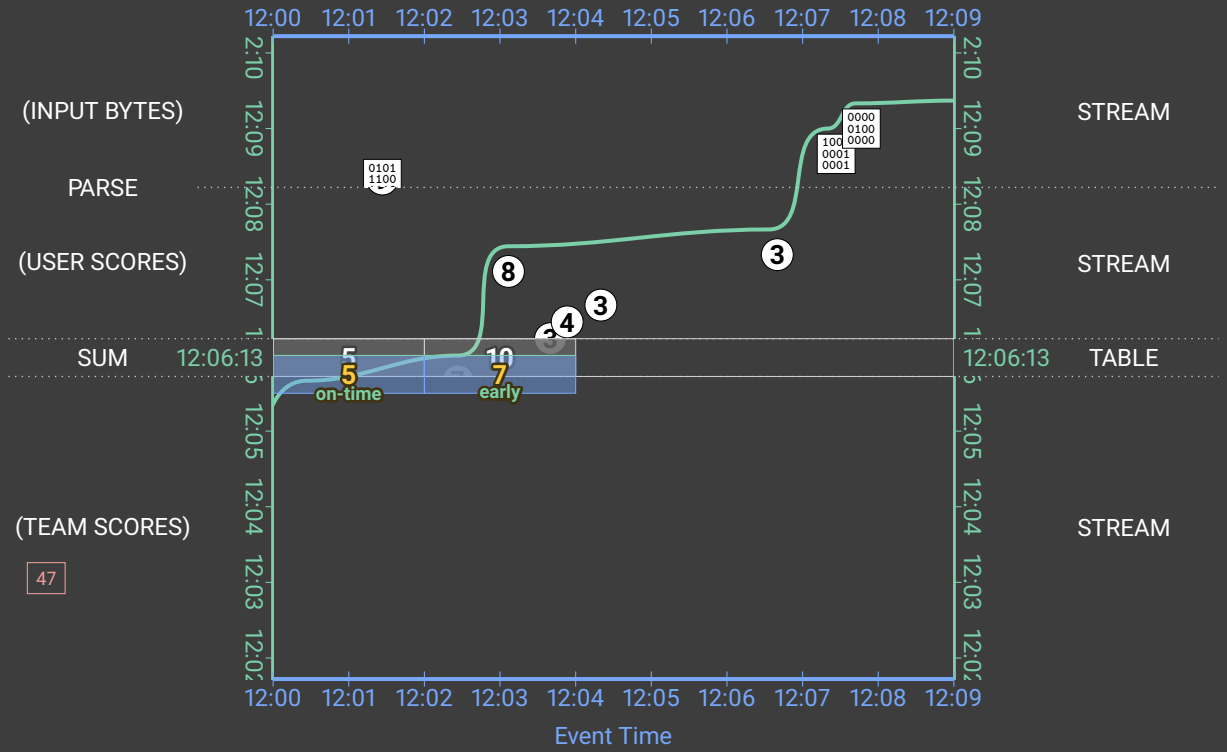
Event Time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STREAM
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TABLE
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1100
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0100
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4
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on-time
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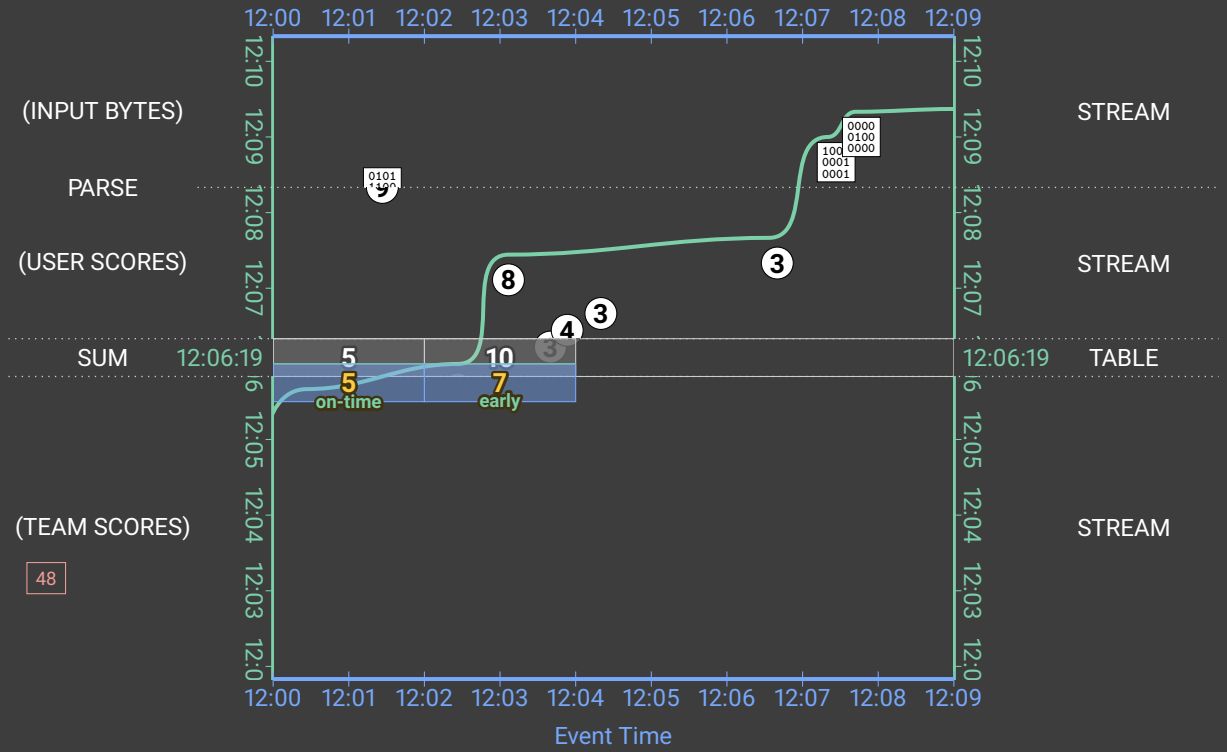
Event Time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STREAM
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early
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4
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0000
0100
0000
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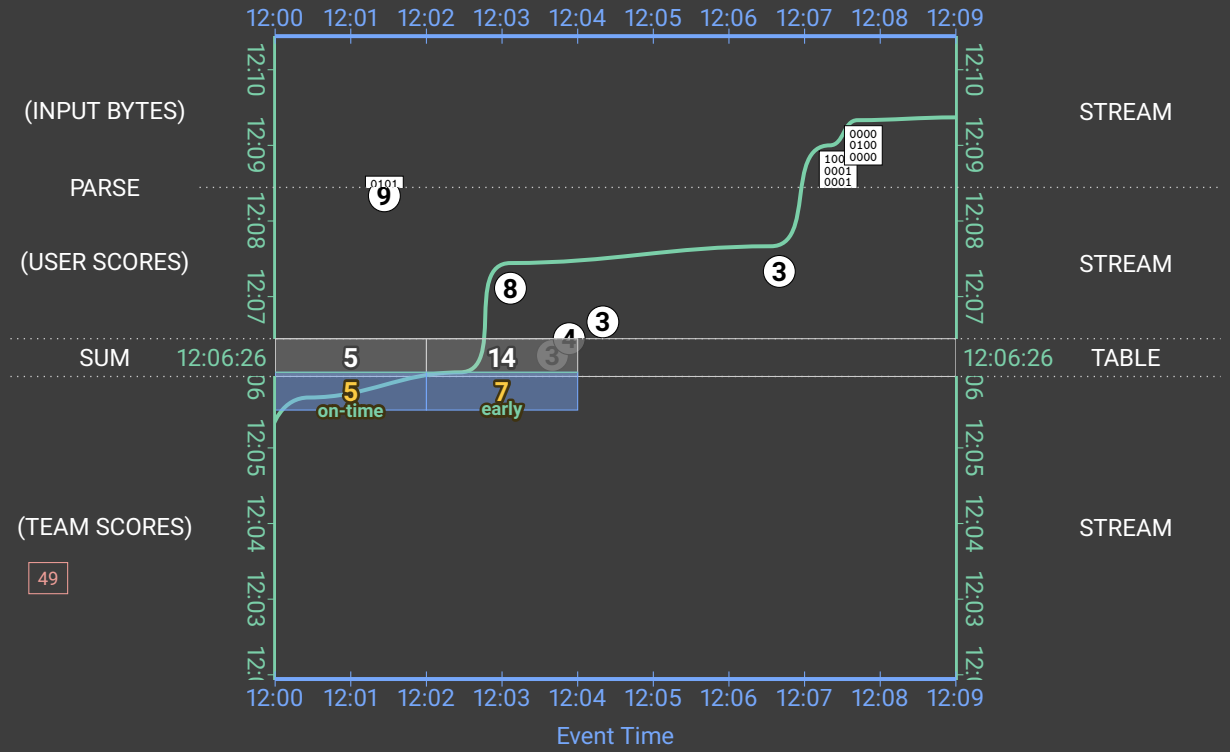
Event Time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7
early
Event Time

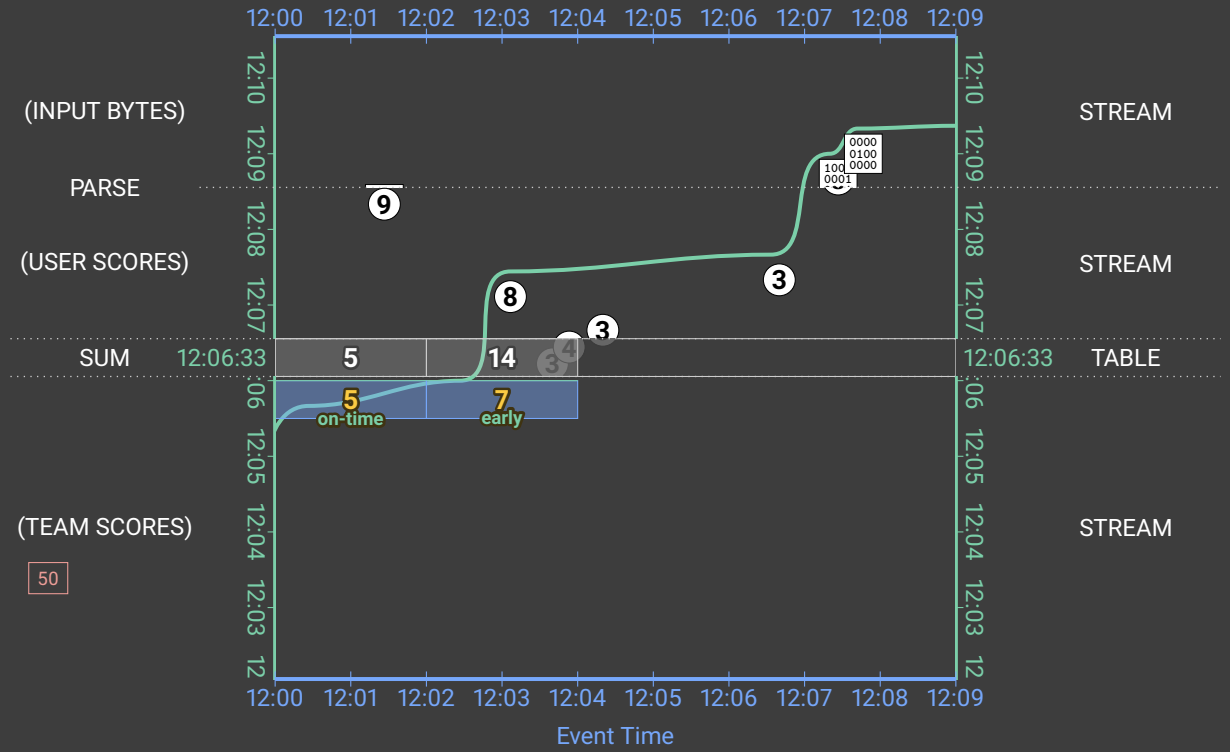
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TABLE
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7
early
(TEAM SCORES)
STREAM
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0000
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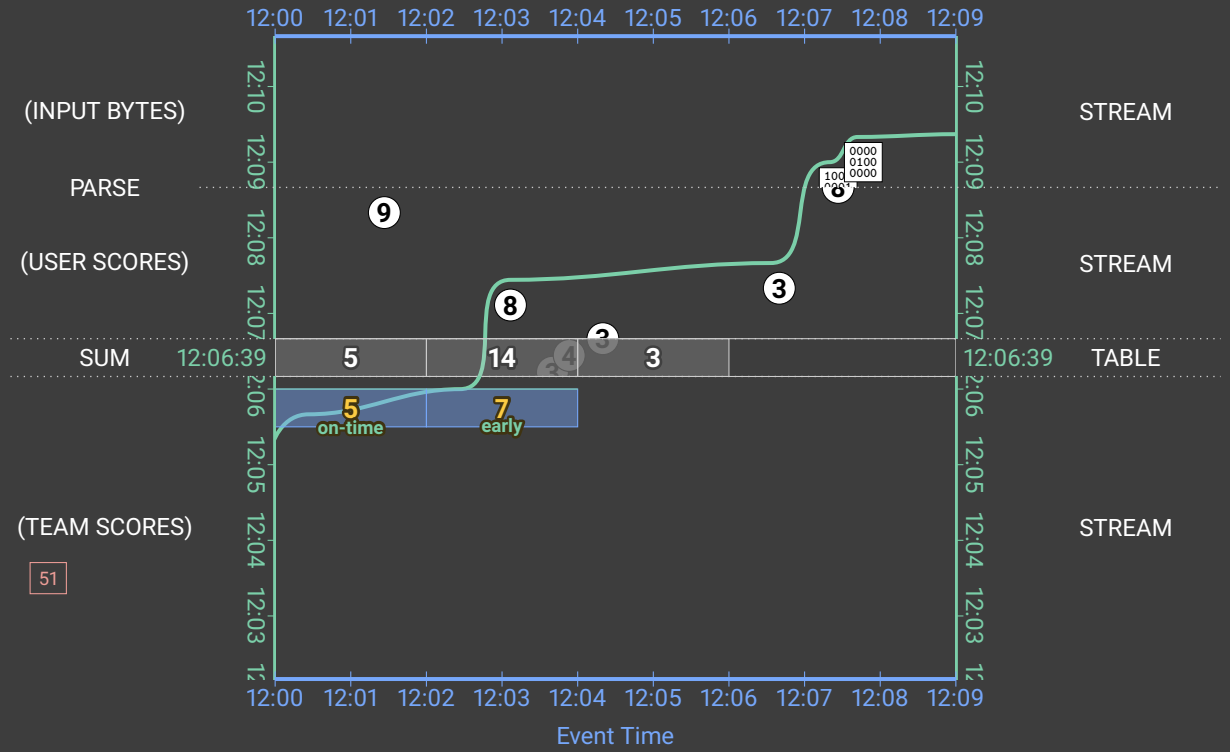
Event Time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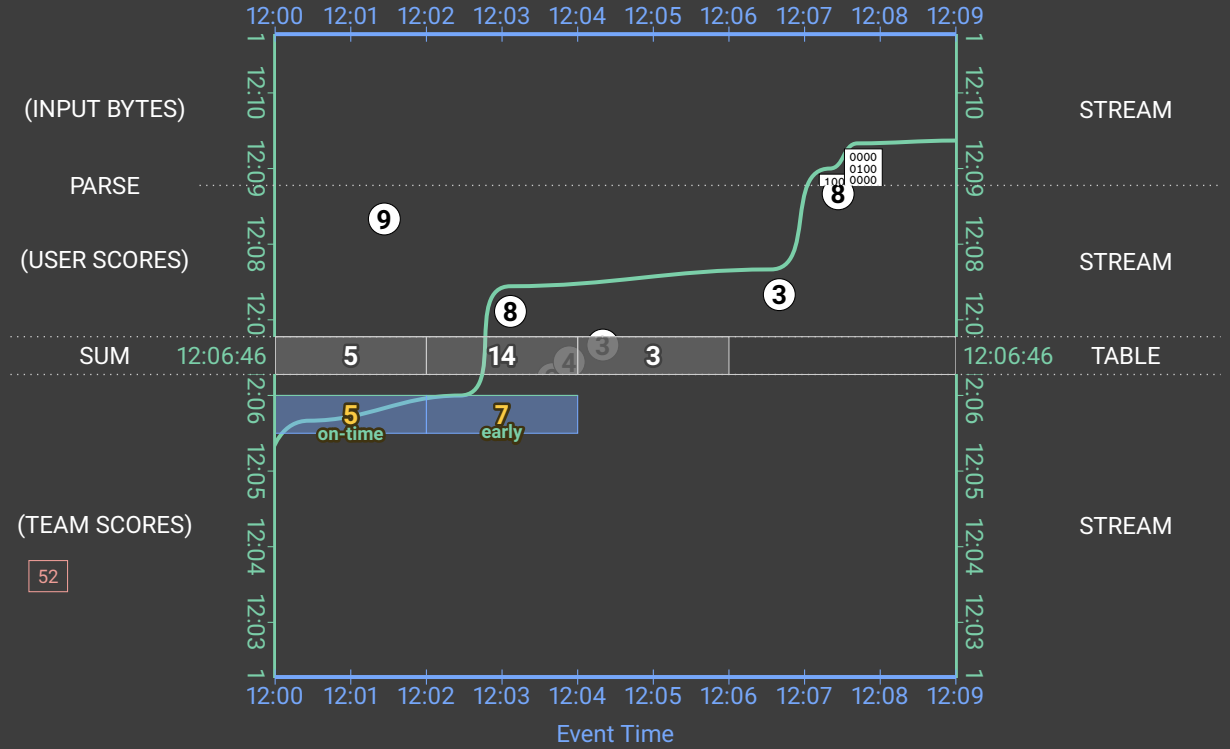
early
Event Time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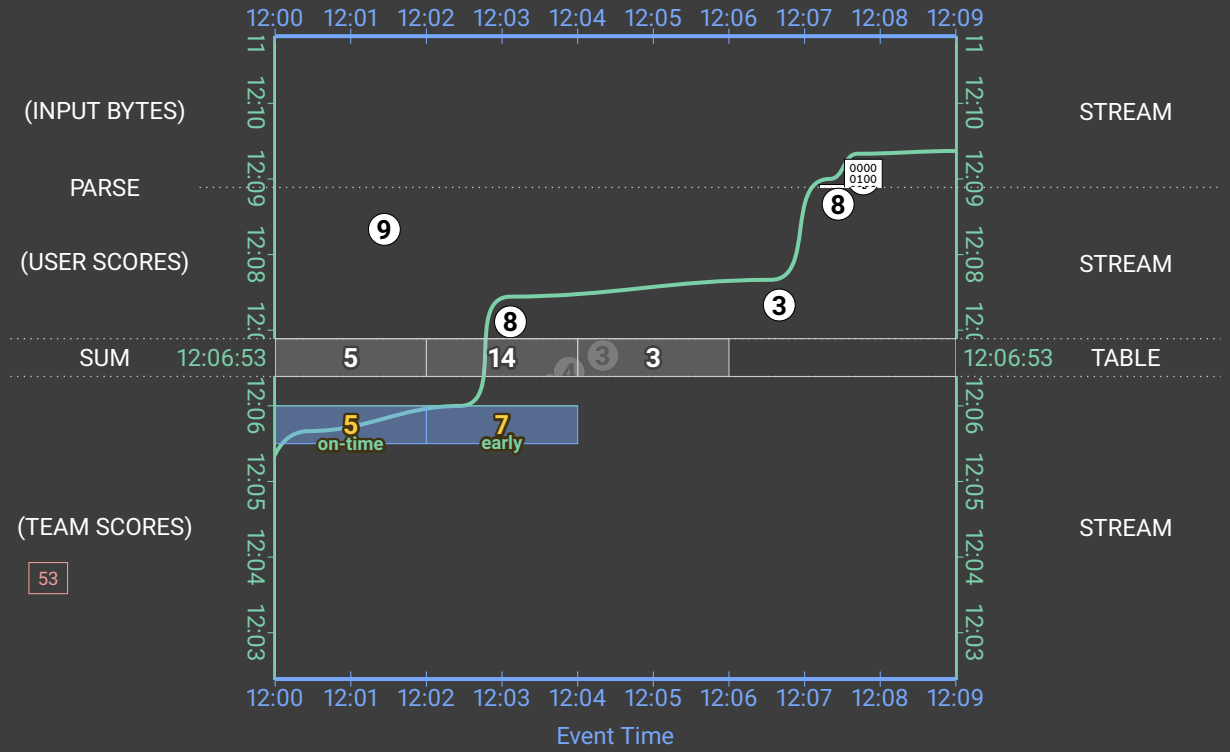
0000
Event Time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early
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STREAM
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Event Time

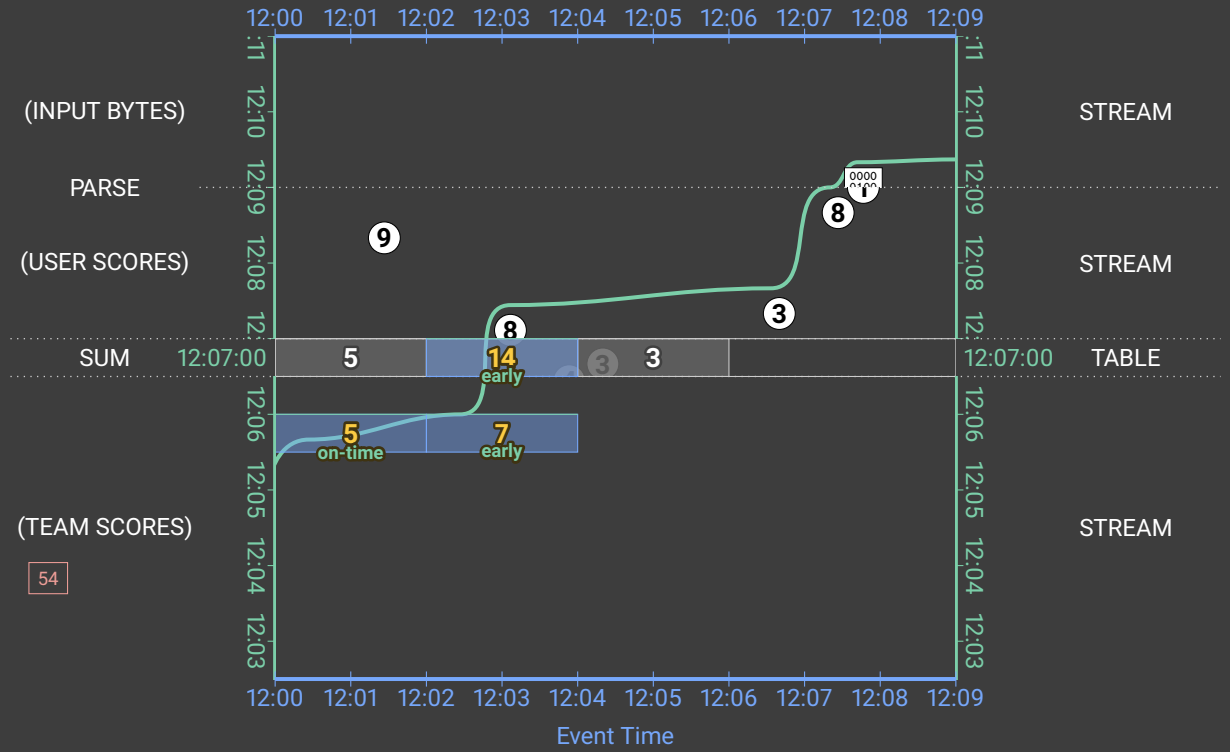
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TABLE
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early
(TEAM SCORES)
STREAM
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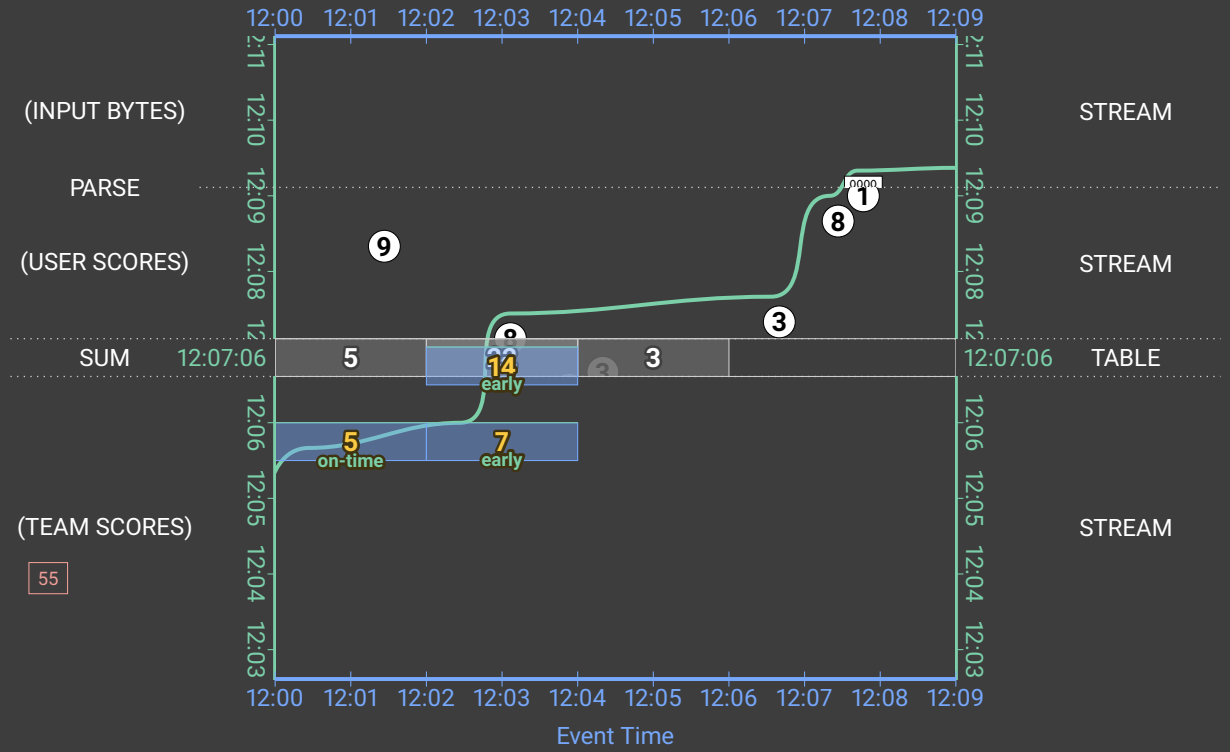
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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SUM
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early
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TABLE
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early
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STREAM
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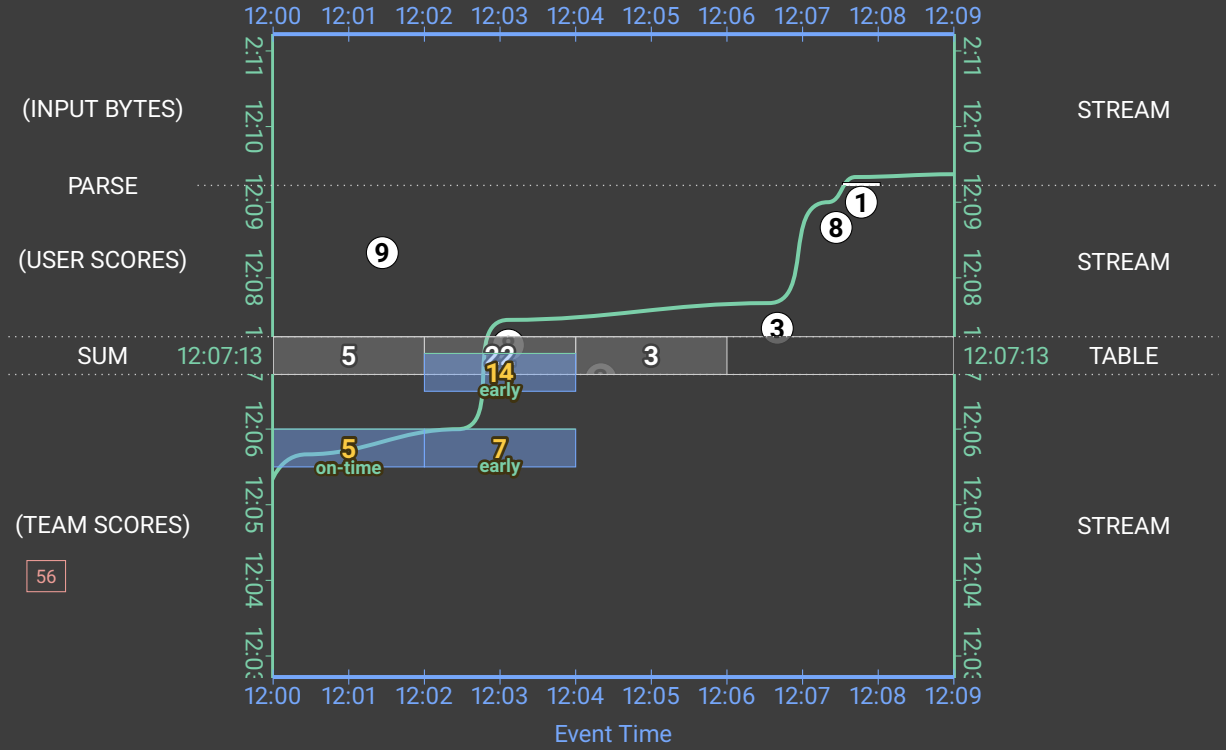
Event Time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SUM
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early
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STREAM
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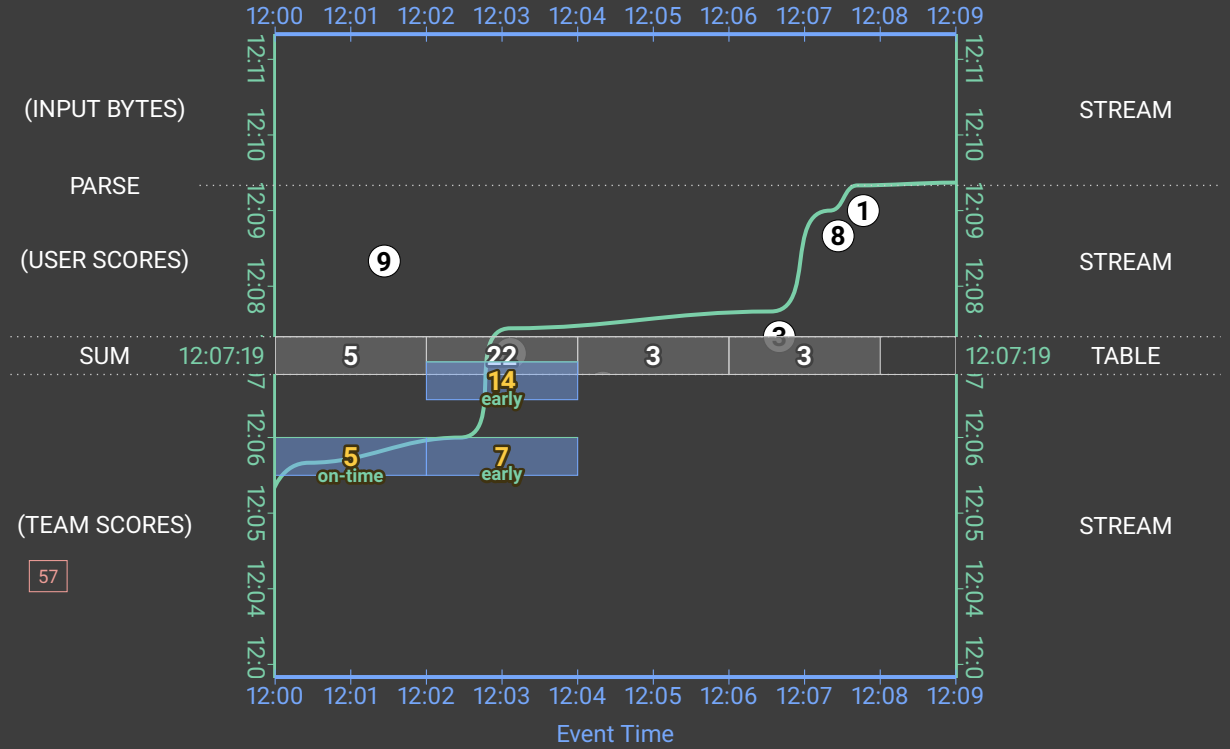
Event Time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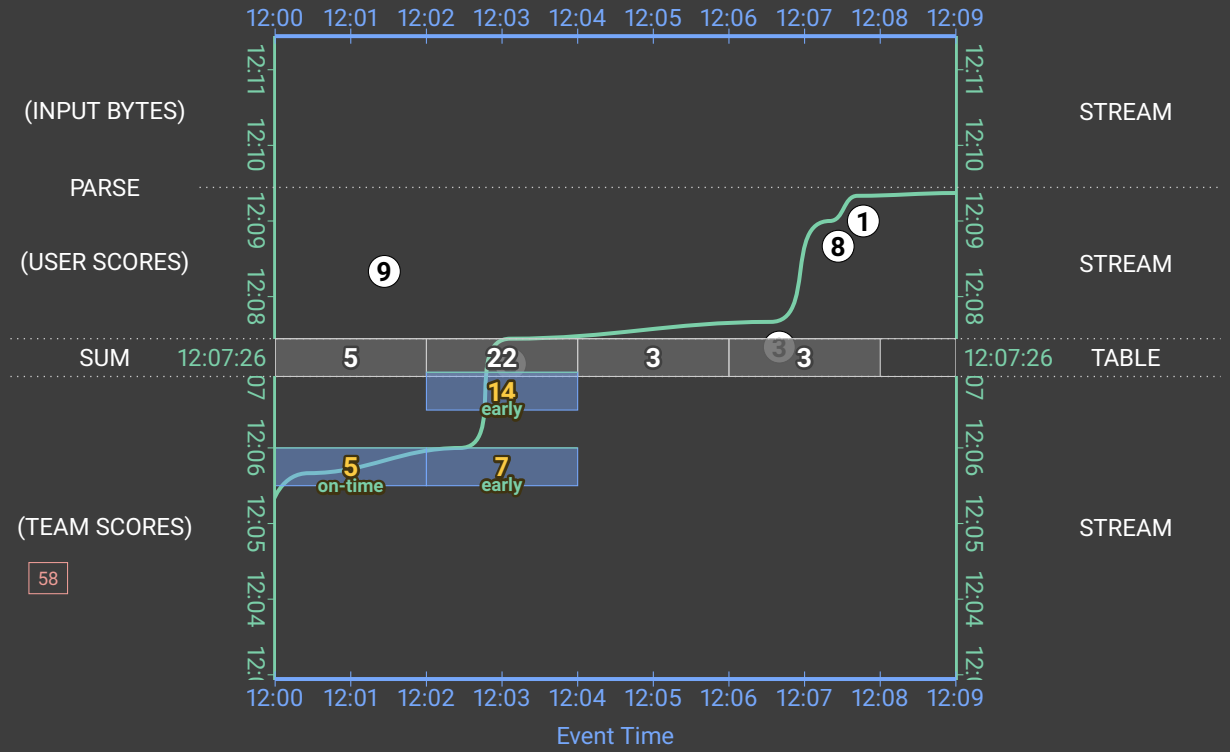
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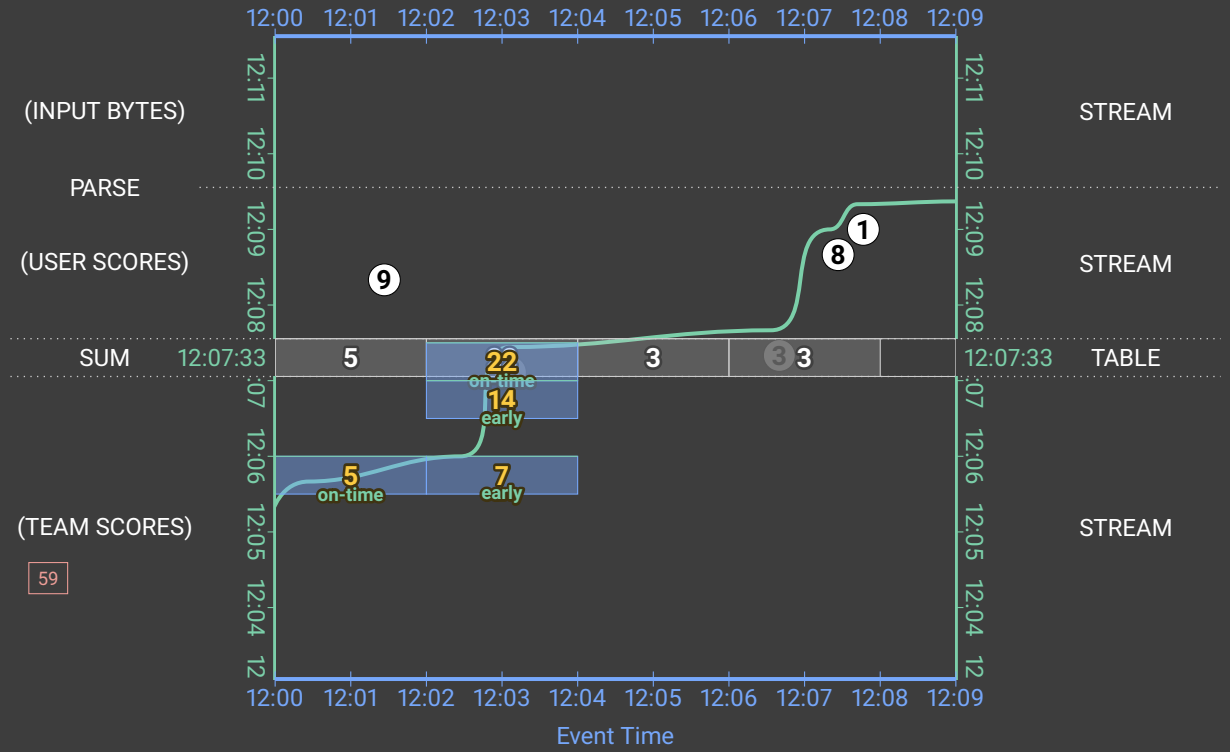
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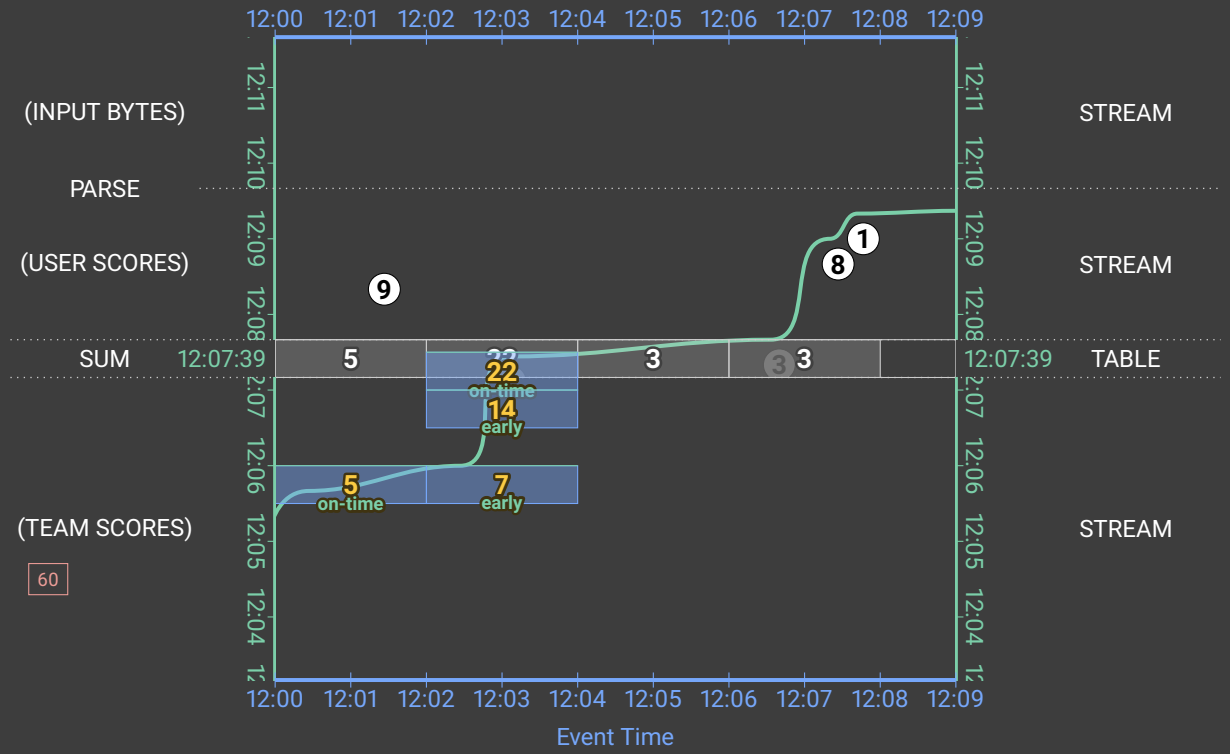
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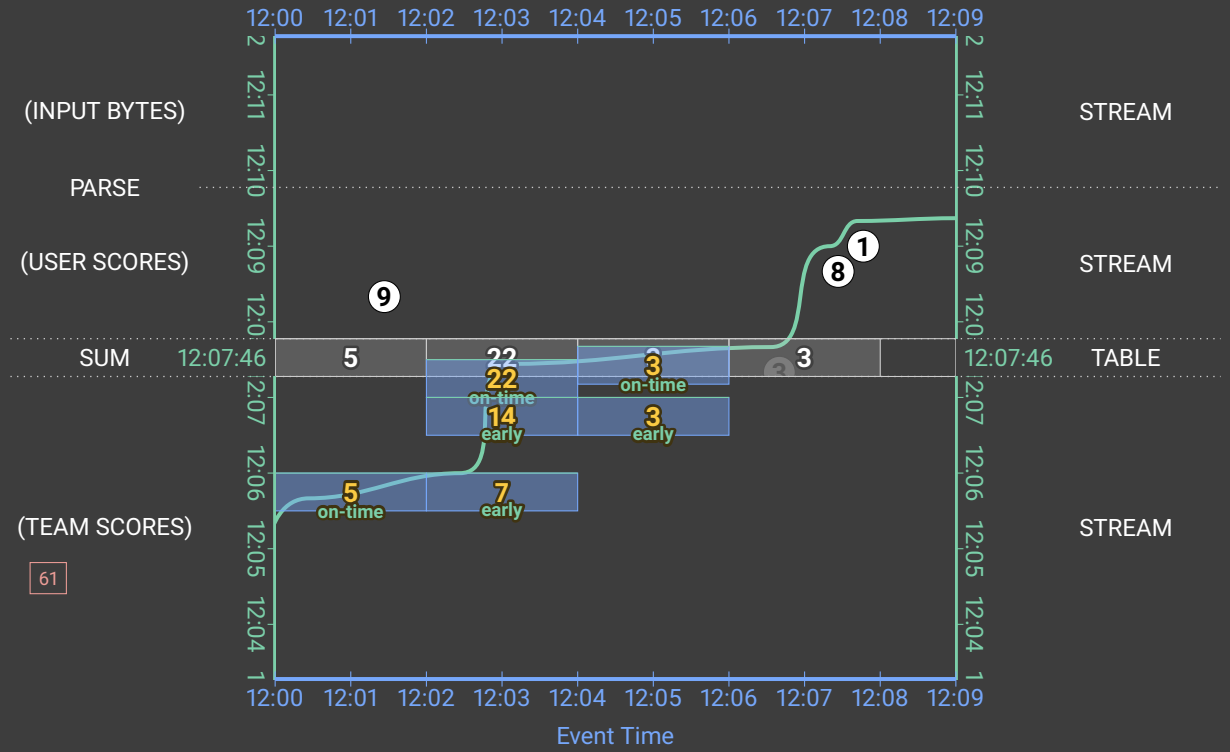
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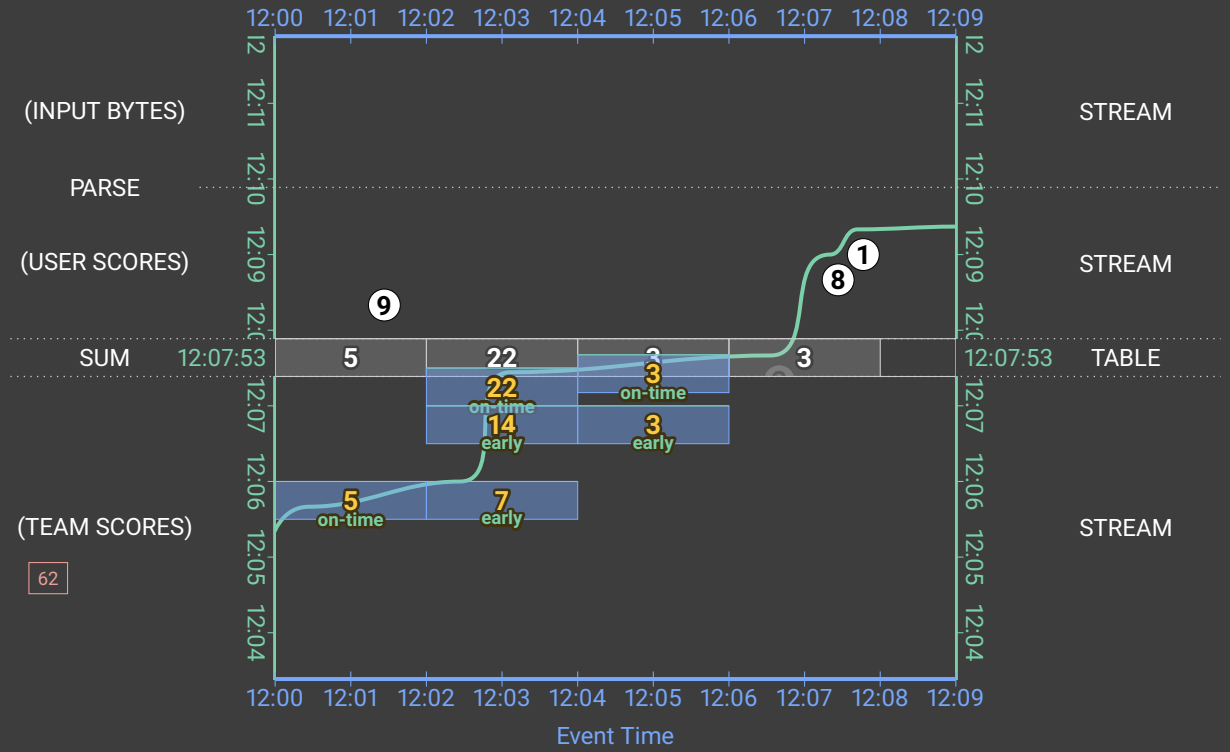
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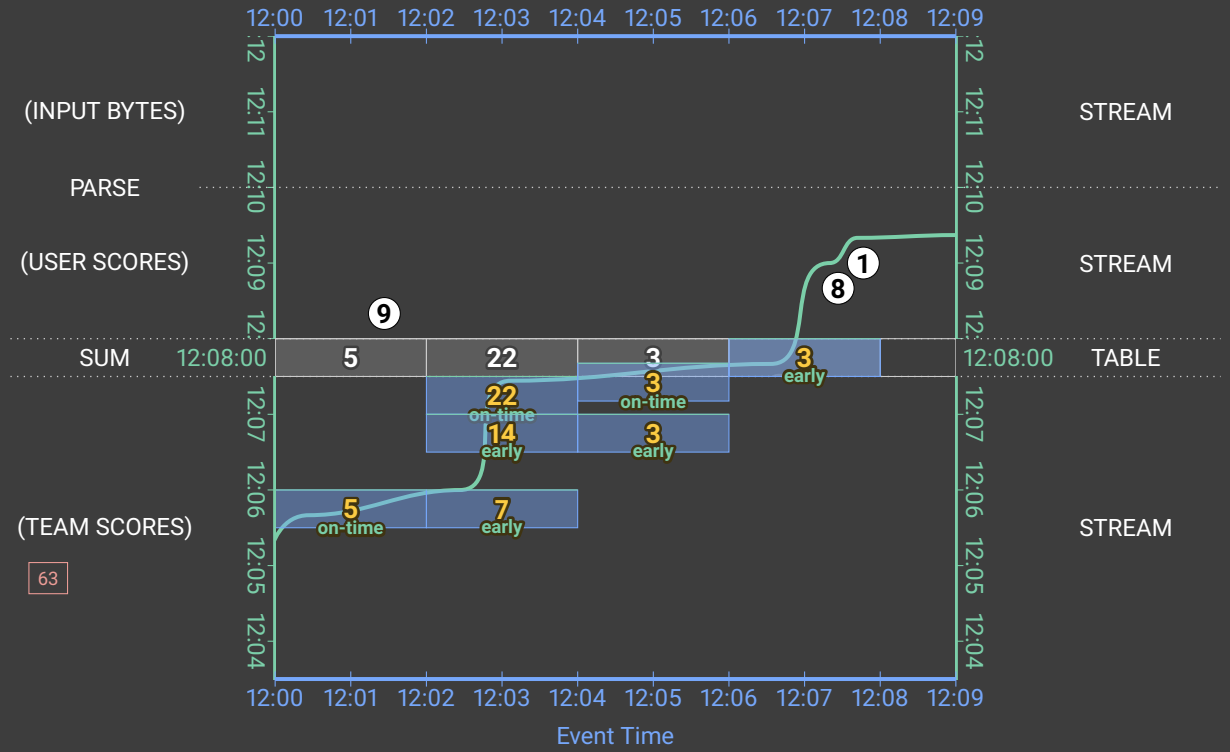
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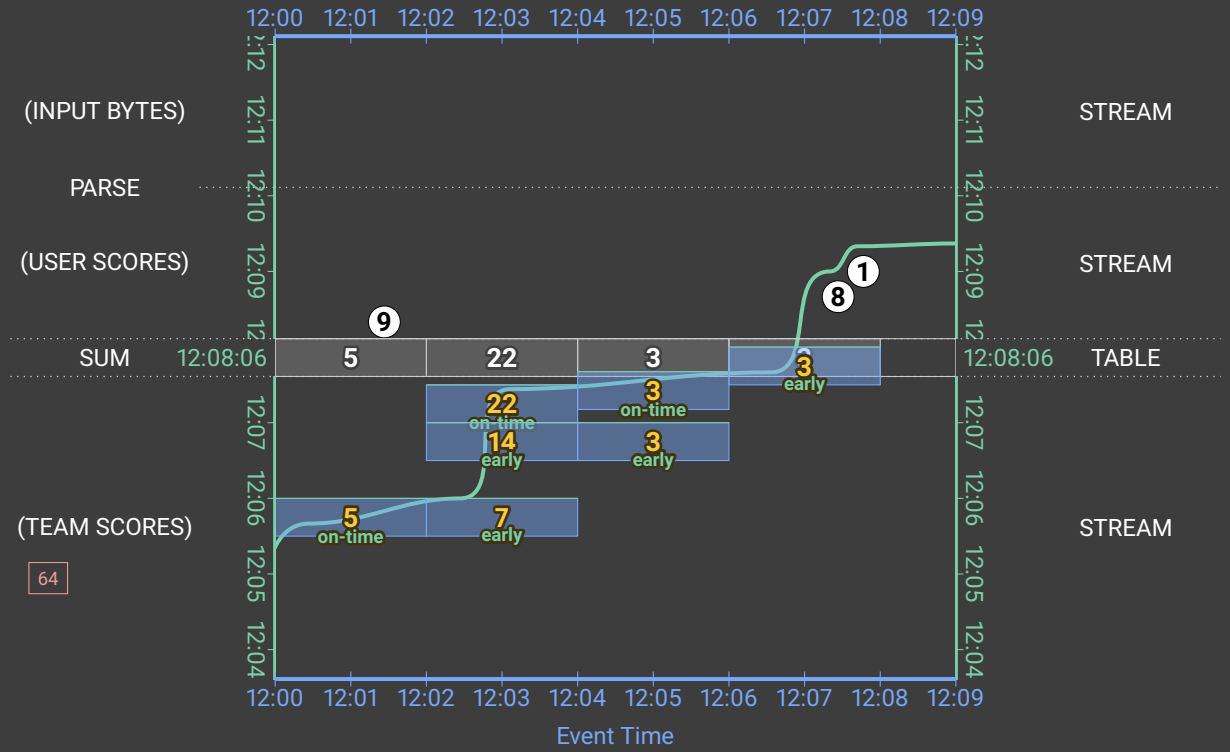
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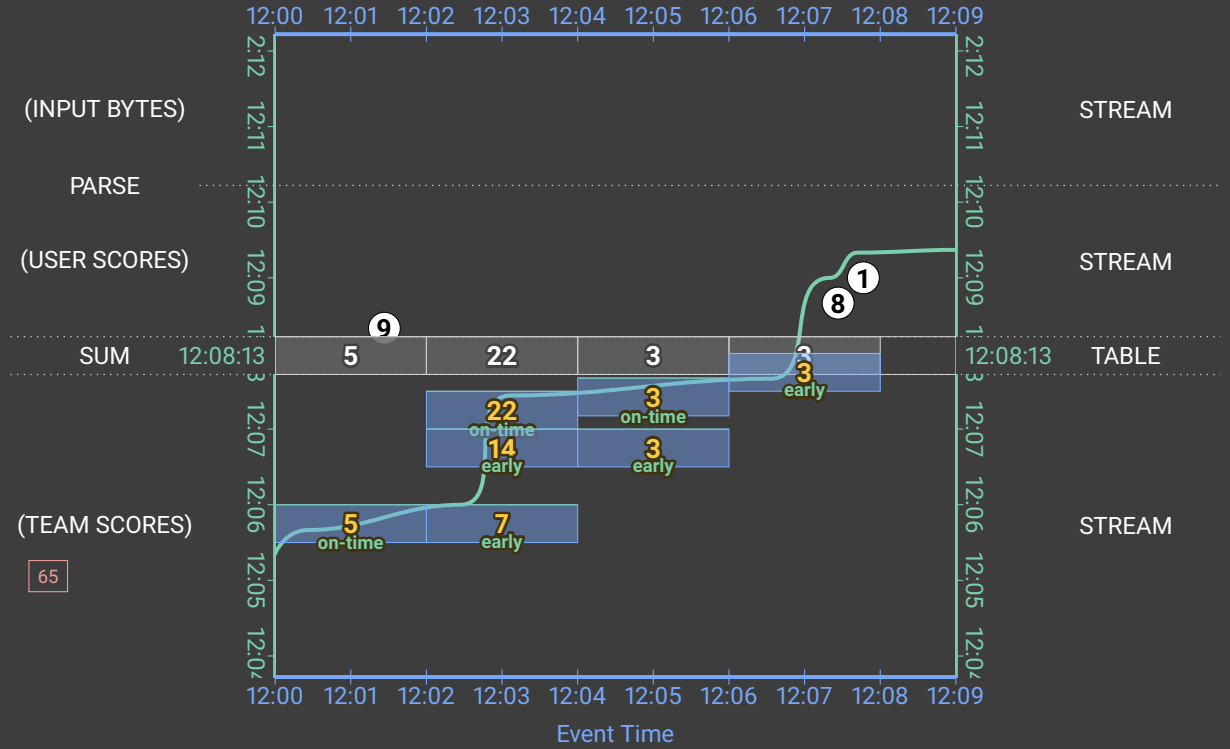
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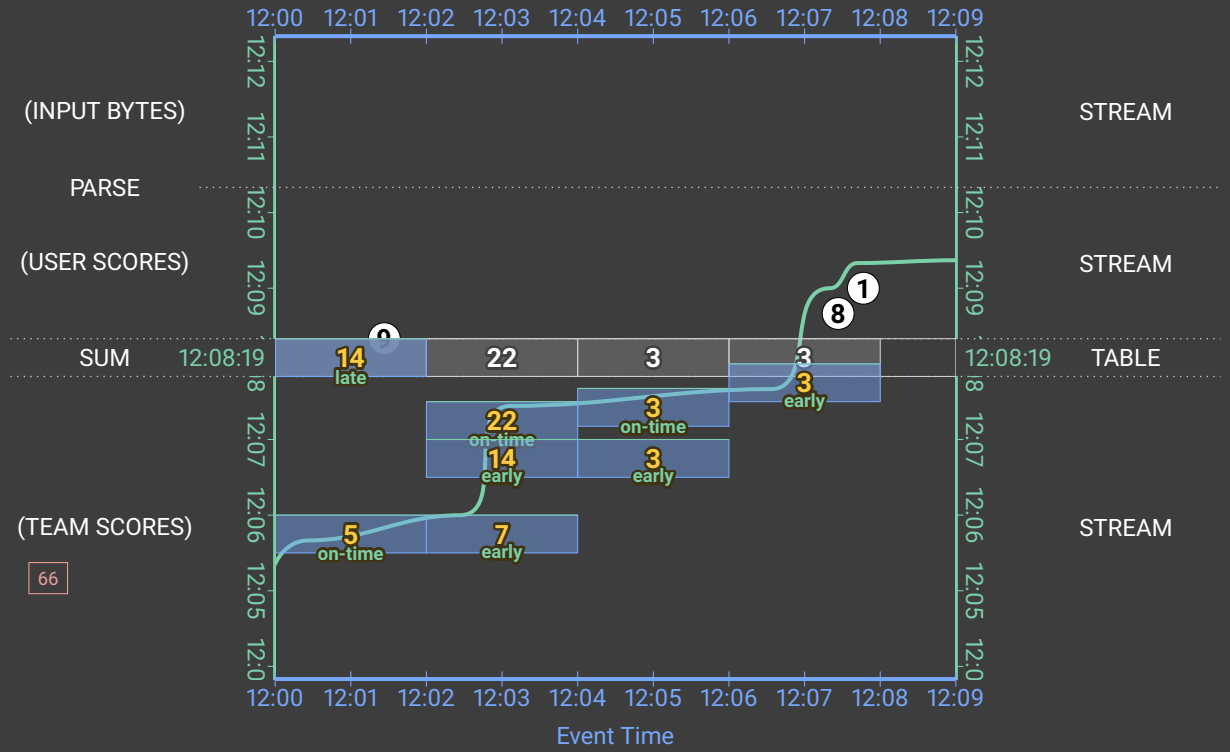
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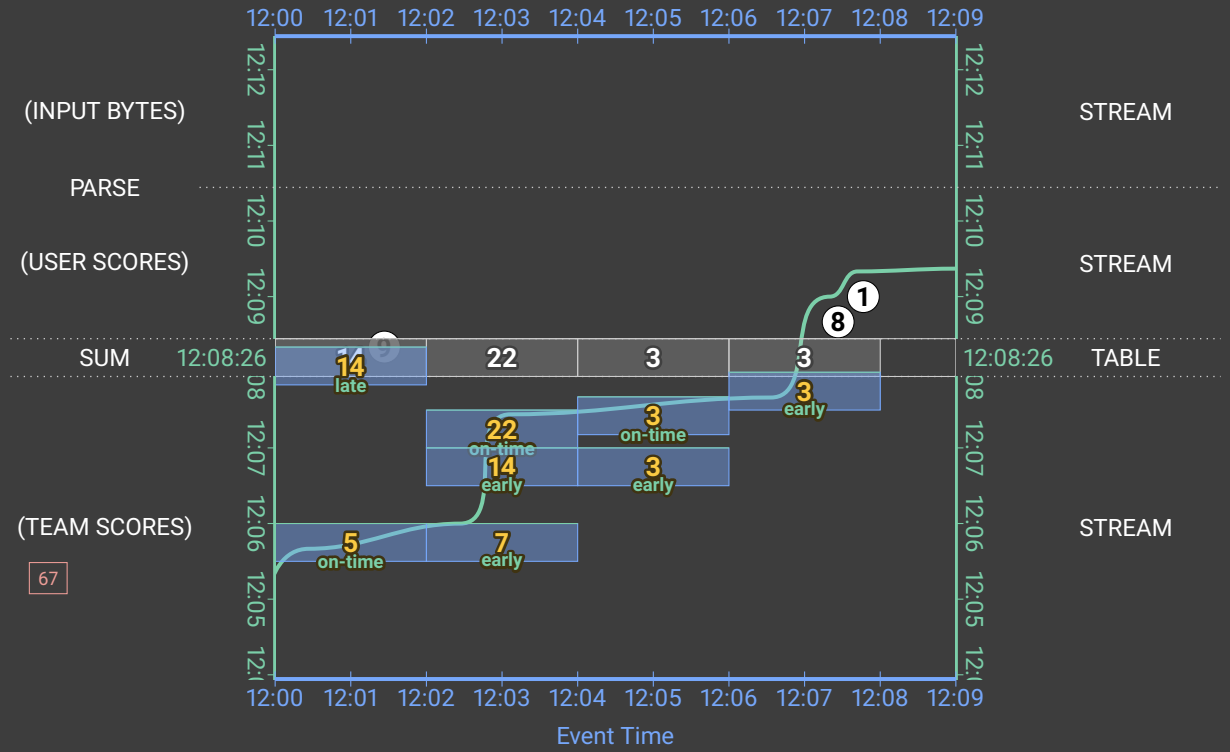
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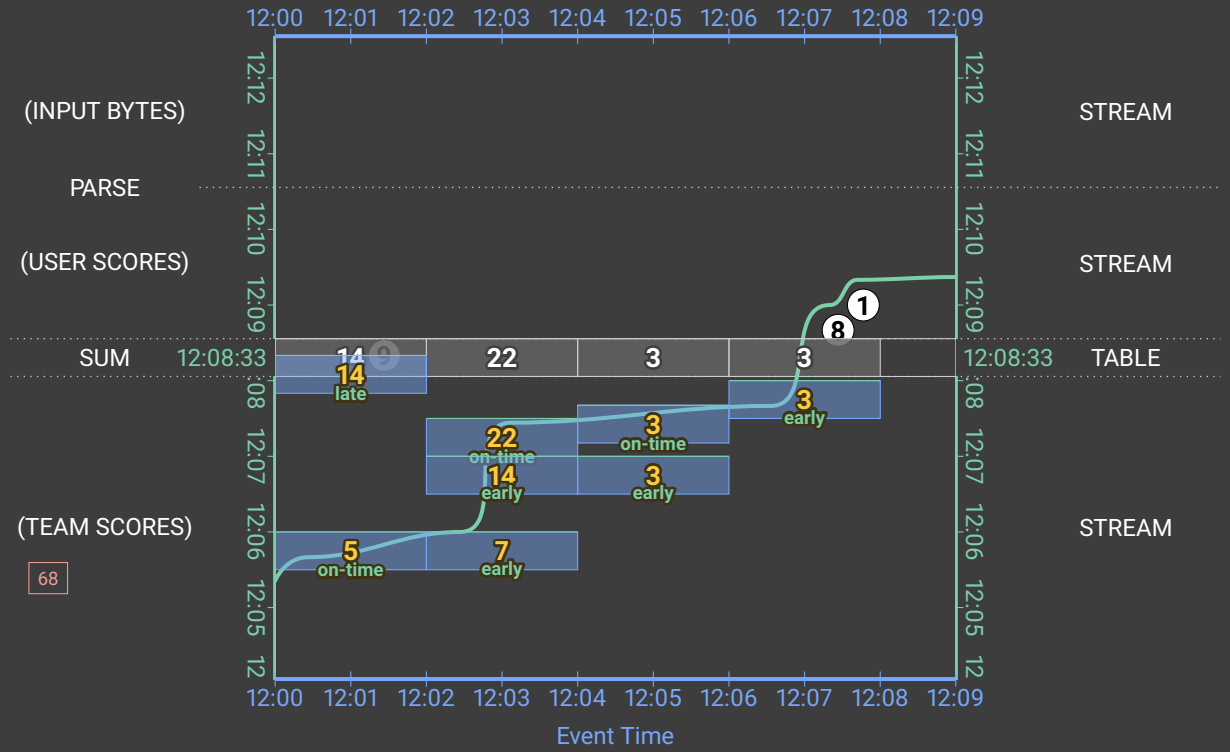
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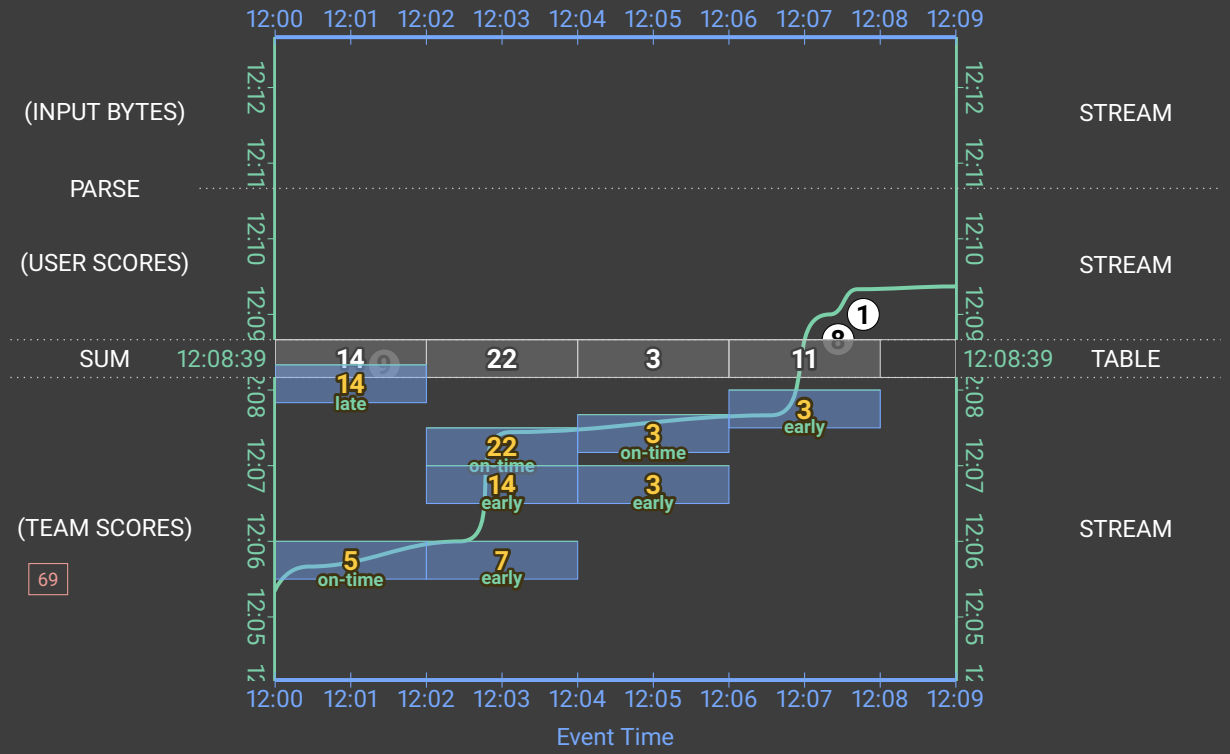
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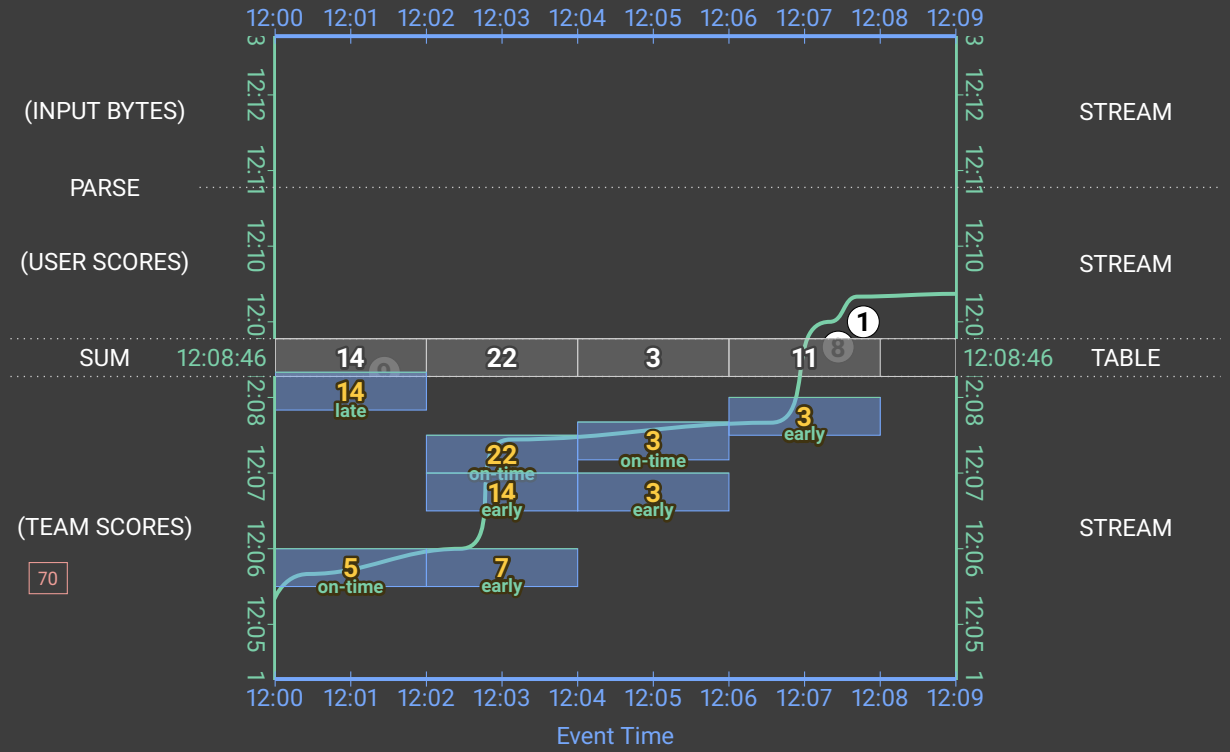
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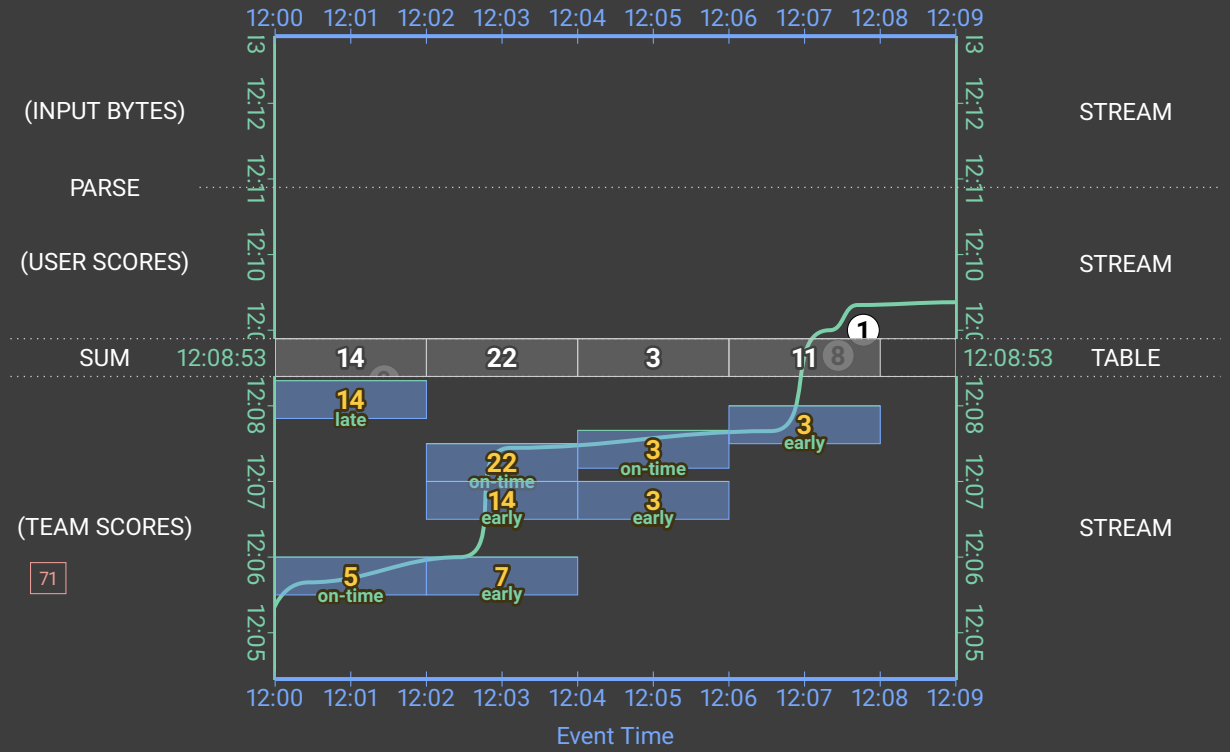
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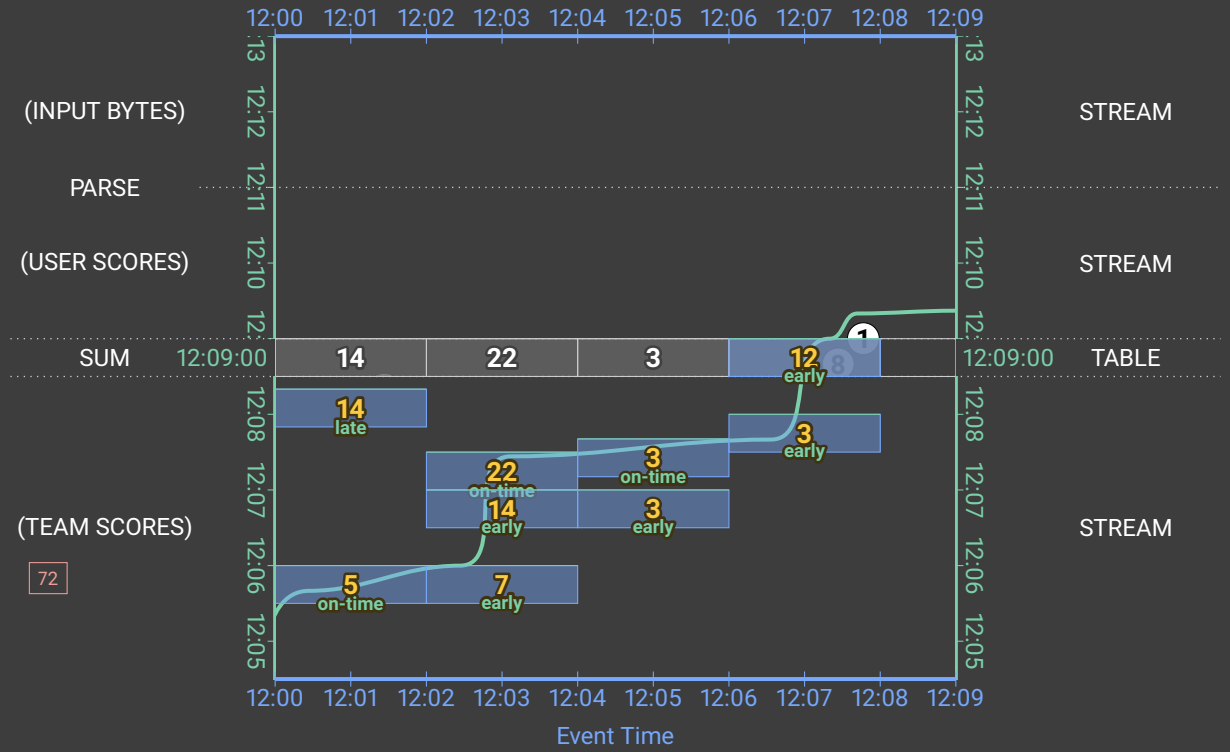
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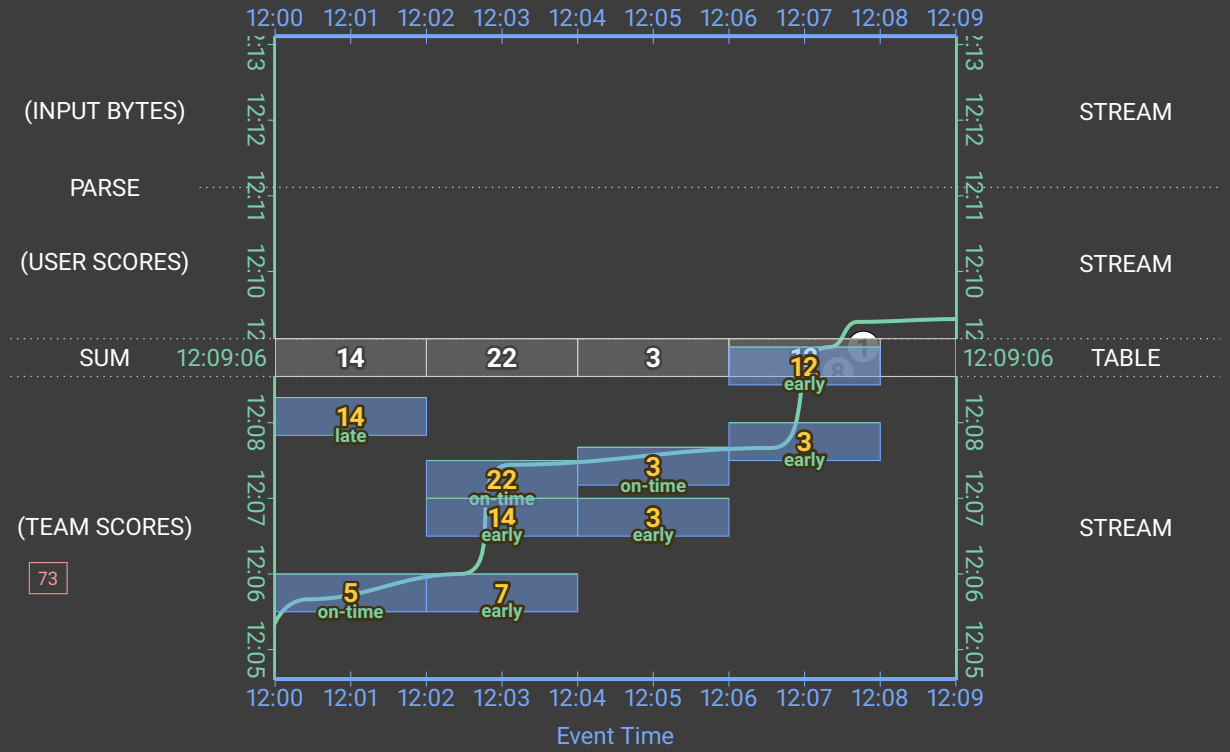
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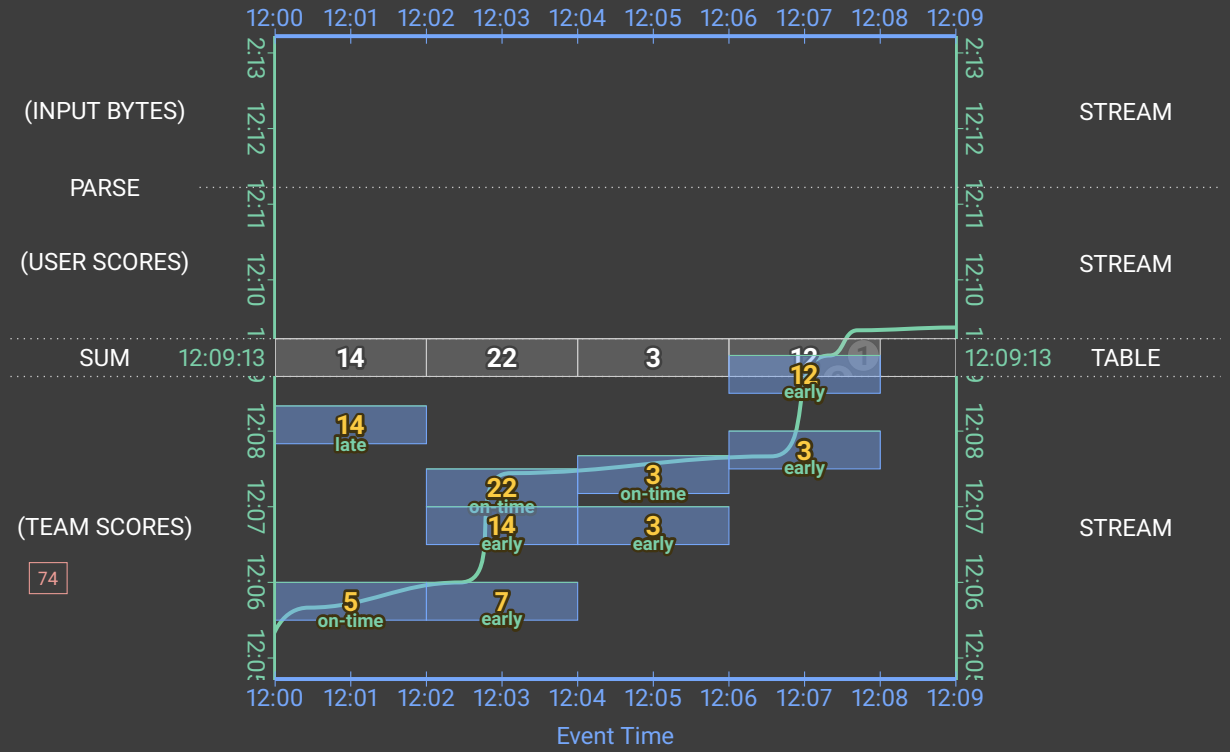
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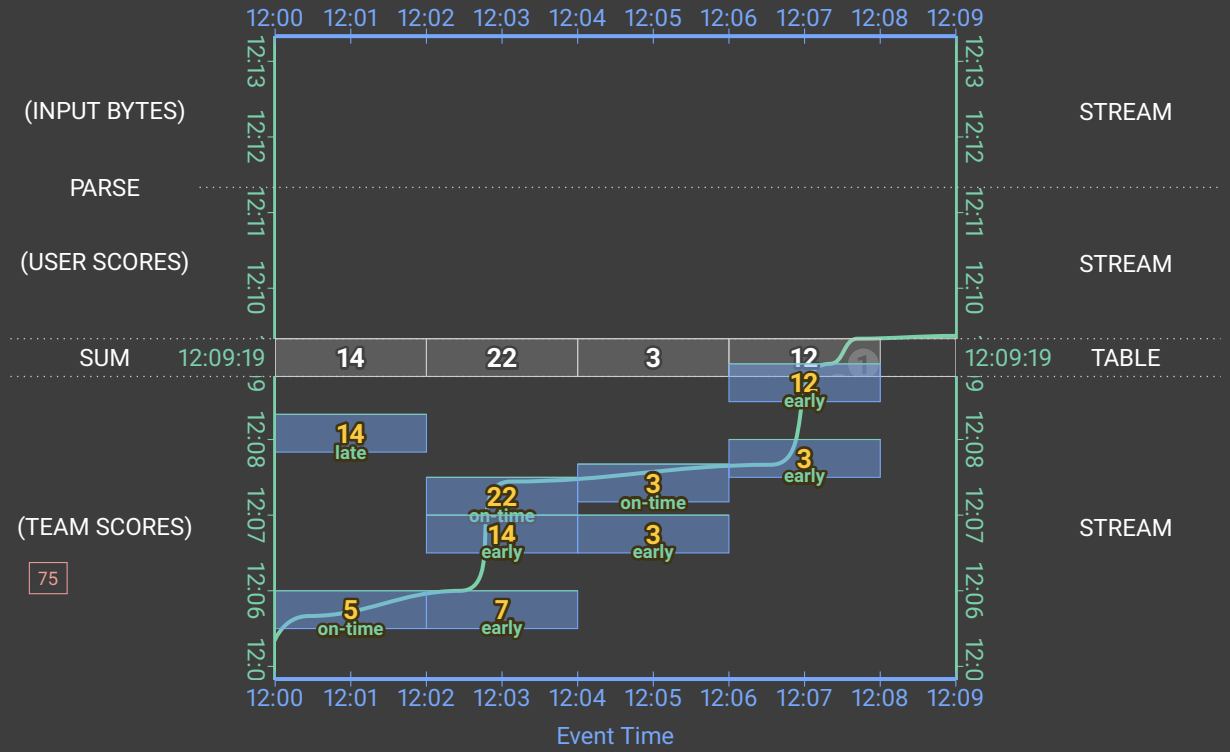
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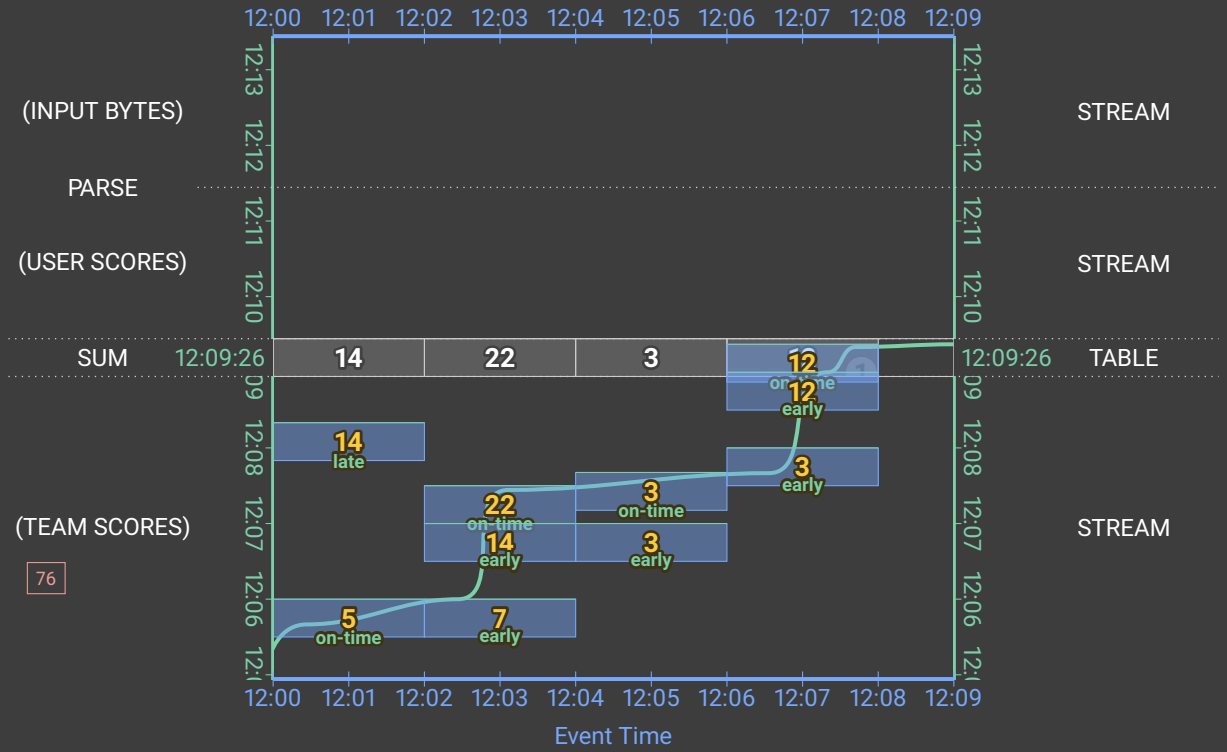
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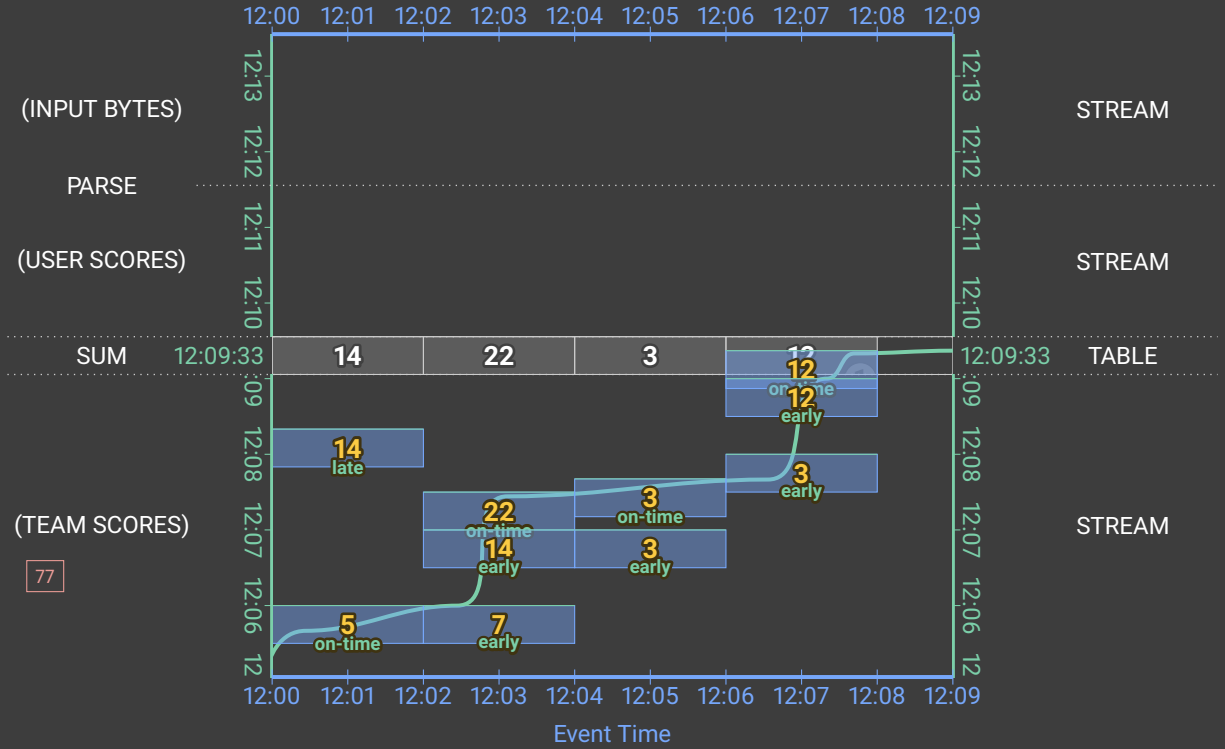
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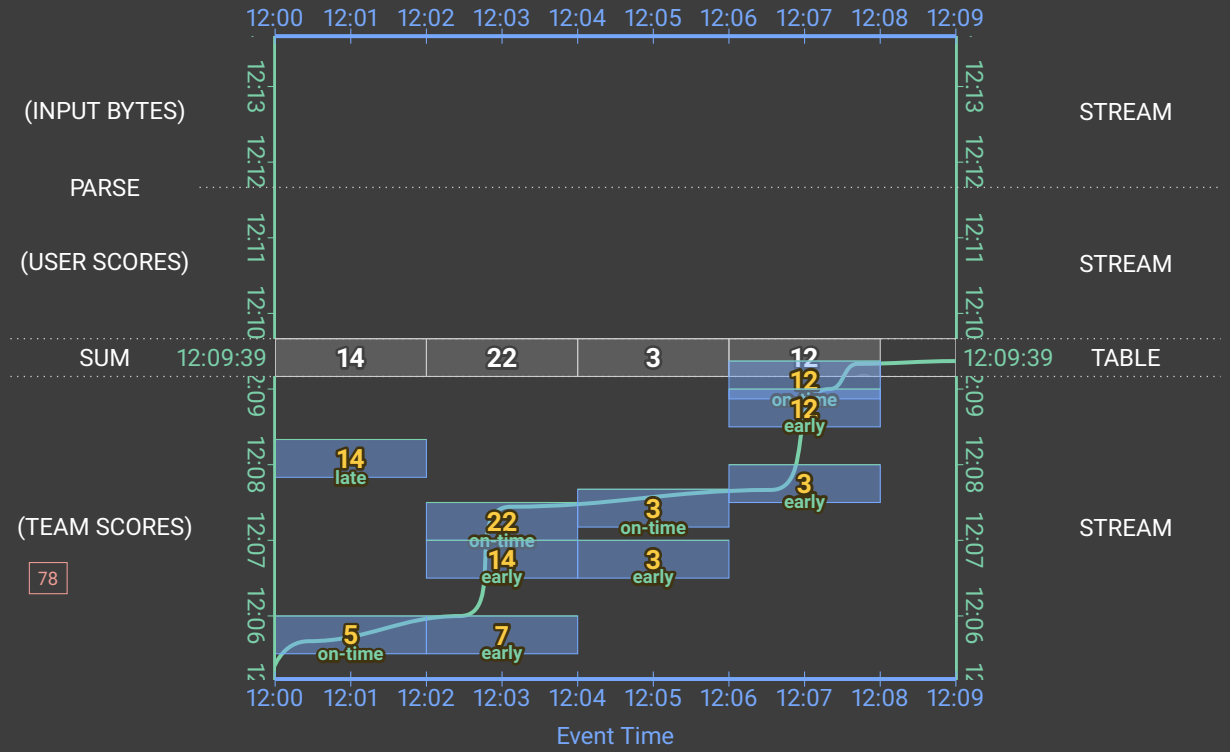
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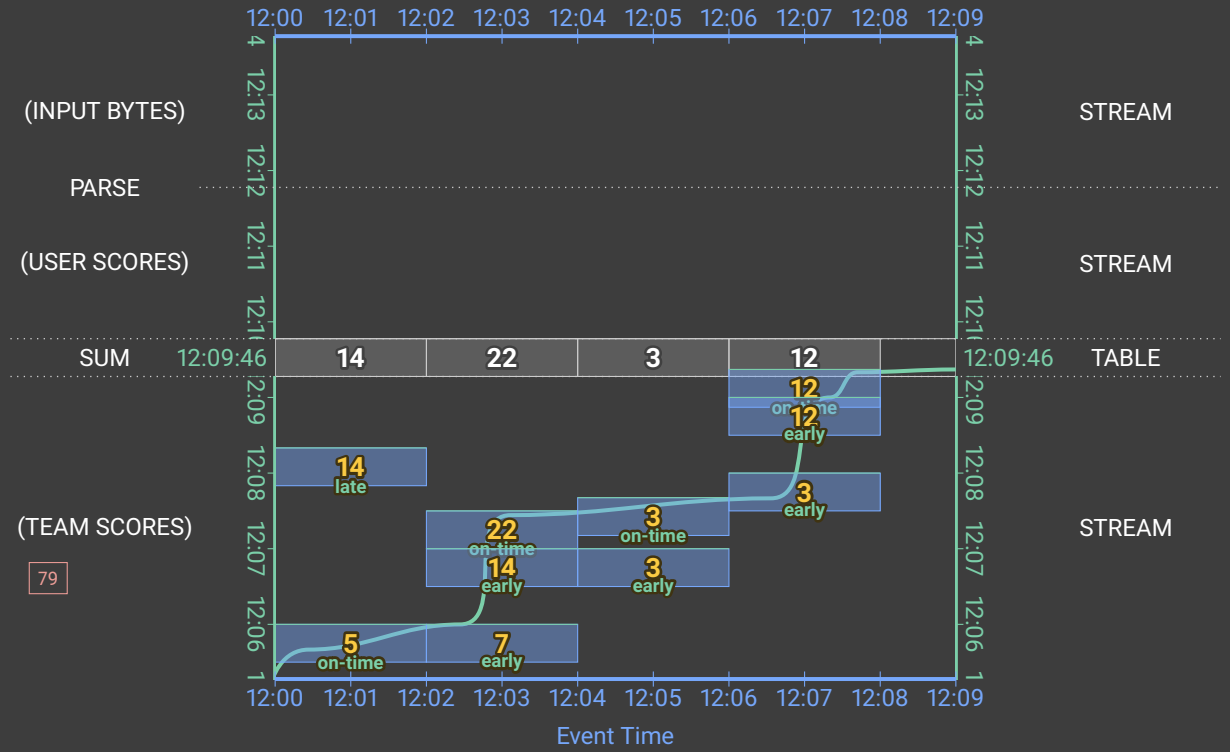
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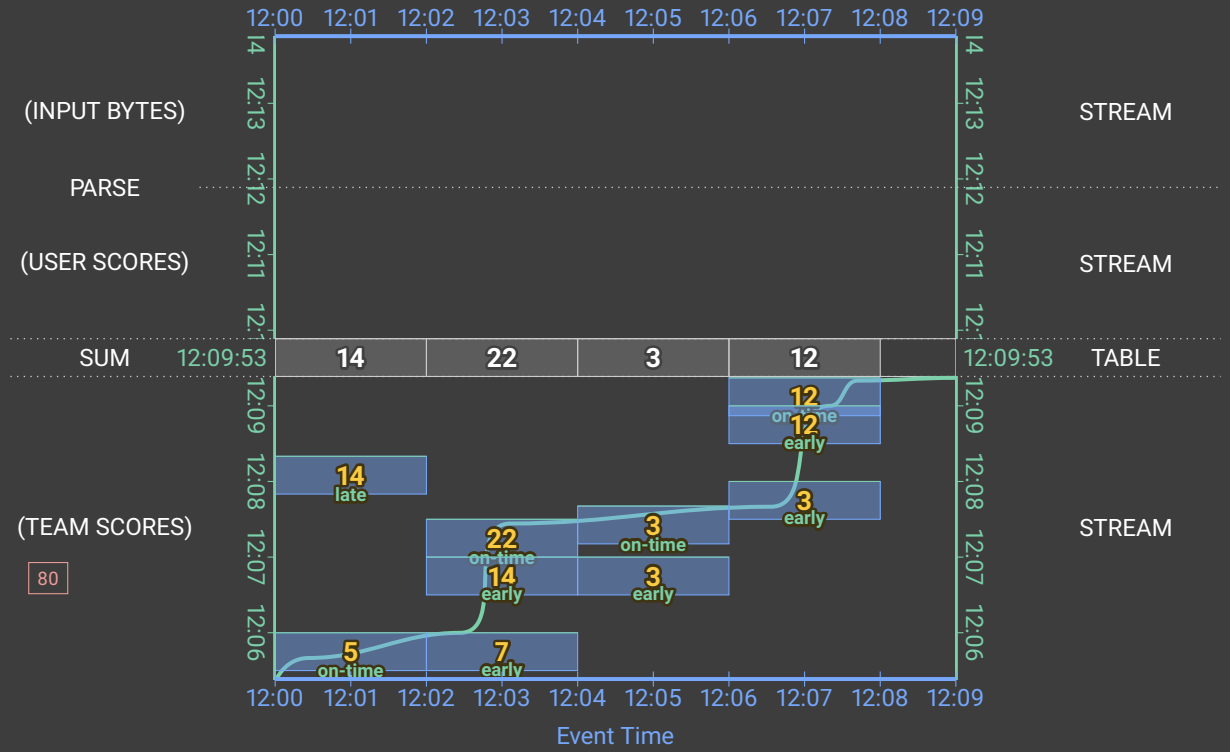
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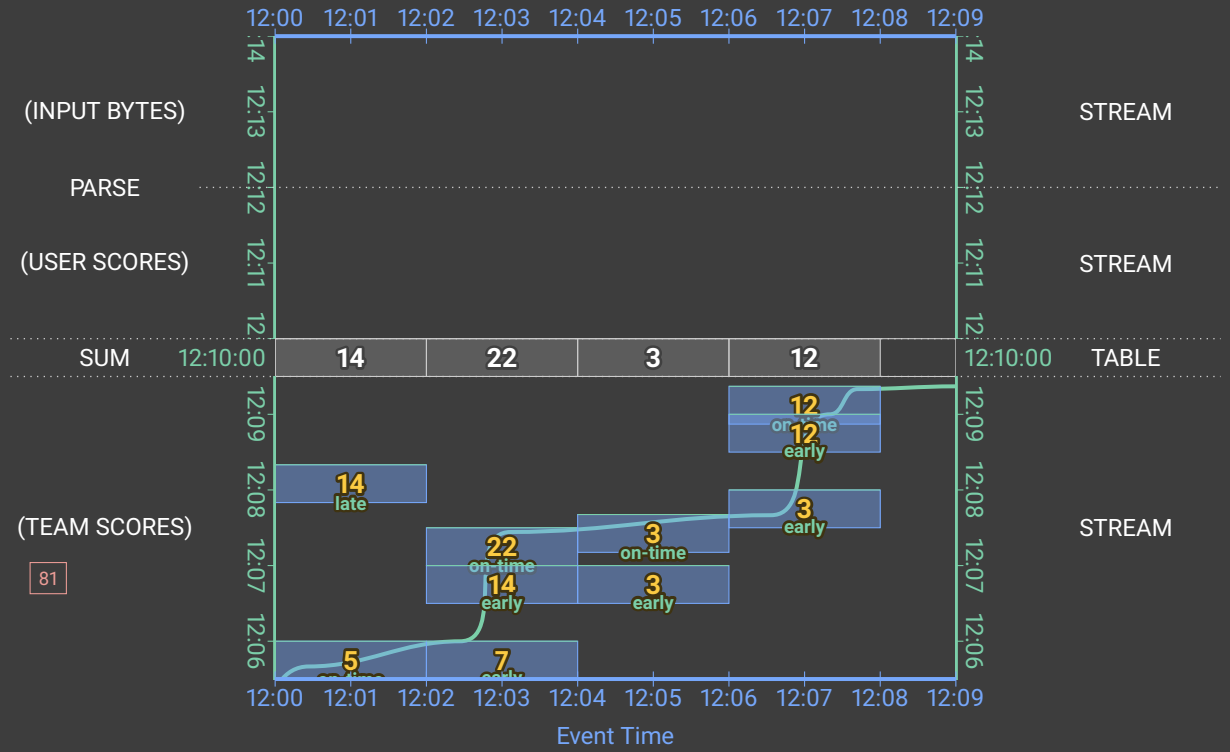
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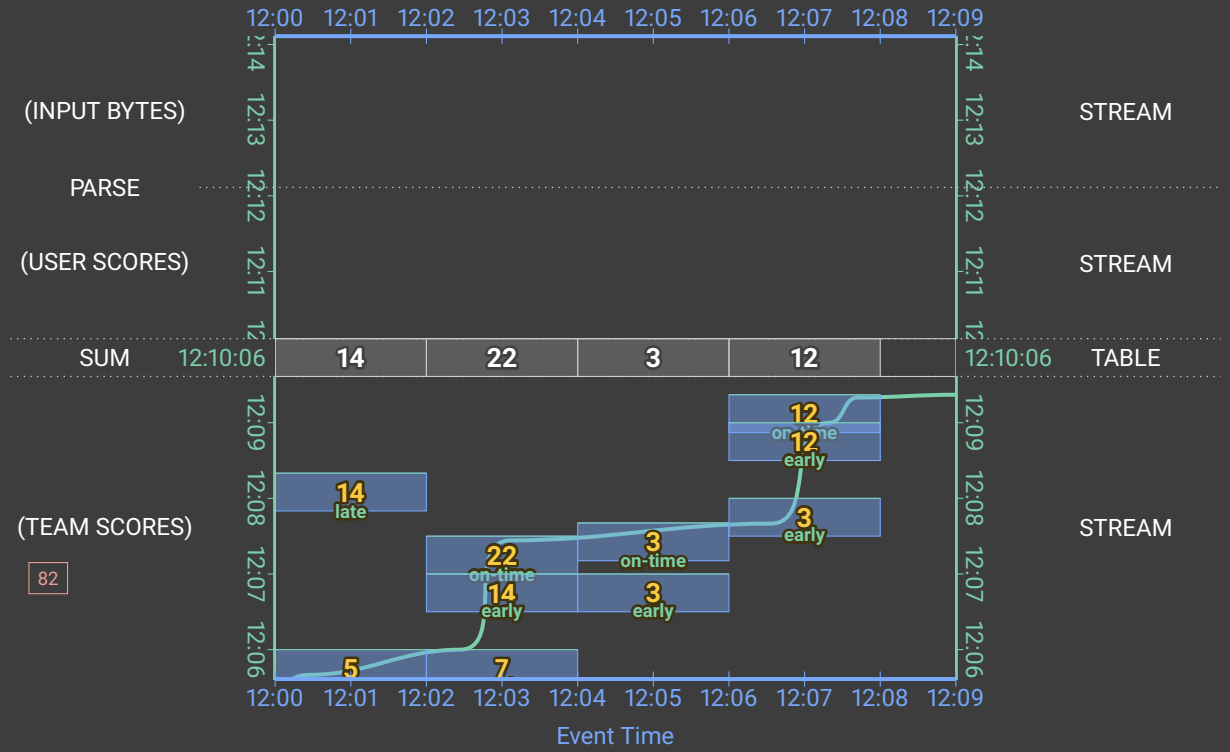
STREAM
SUM
12:10:00
14
22
3
12
12:10:00
TABLE
(TEAM SCORES)
STREAM
81
14
late
22
on-time
14
early
3
on-time
3
early
12
on-time
12
early
3
early
5
7
12:06 12:07 12:08 12:09 12:10 12:11 12:12 12:13 14
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:10:06
14
22
3
12
12:10:06
TABLE
(TEAM SCORES)
STREAM
82
14
late
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on-time
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early
5
7
3
on-time
3
early
12
on-time
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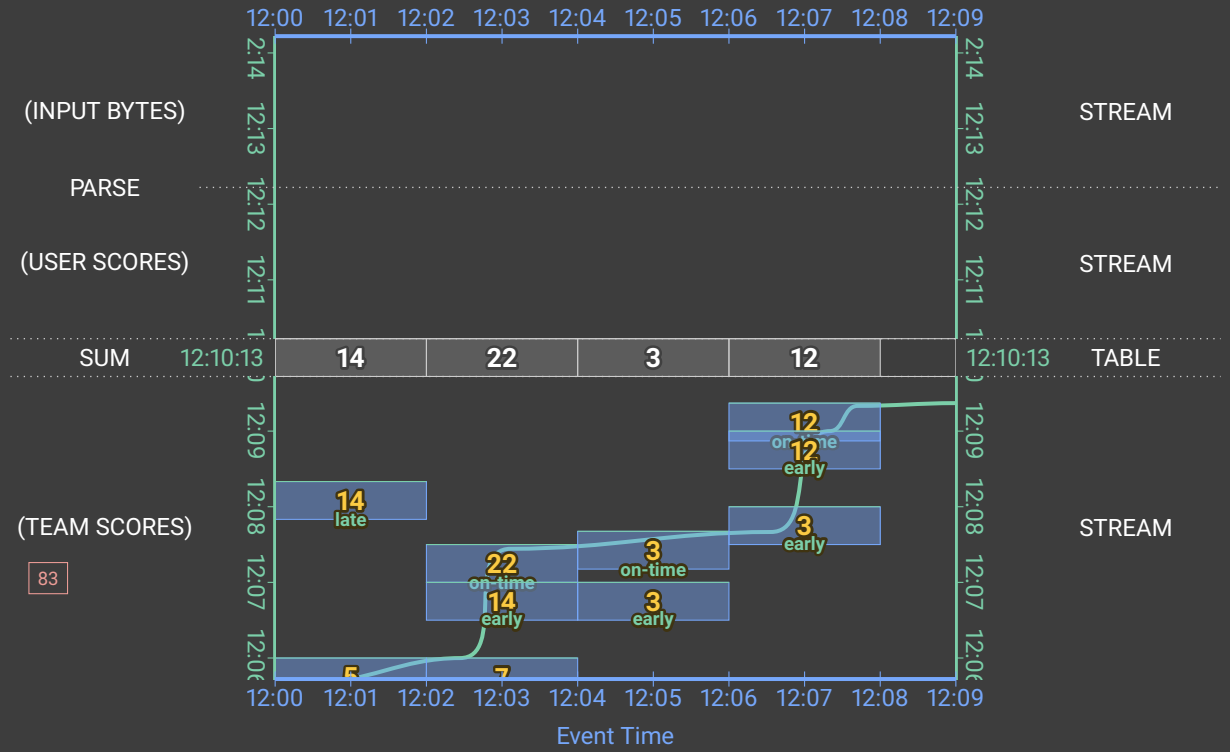
early
3
early
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:10:13
14
22
3
12
12:10:13
TABLE
(TEAM SCORES)
STREAM
83
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late
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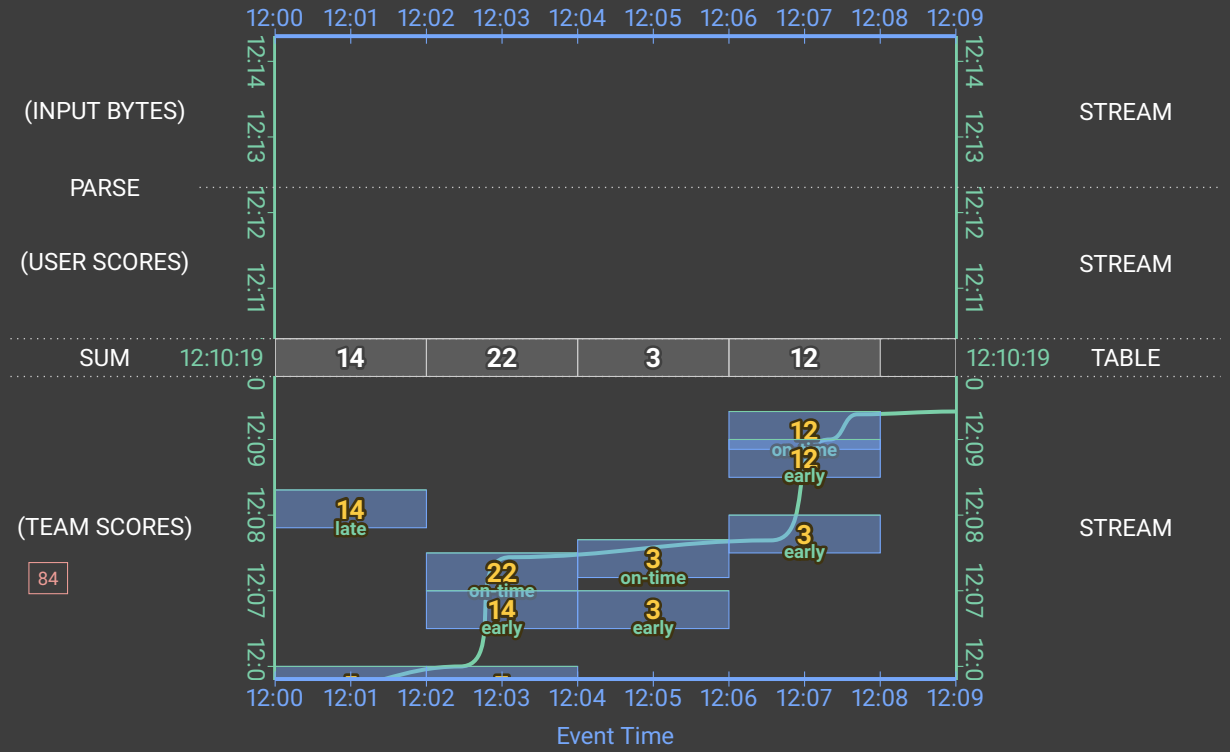
on-time
14
early
3
on-time
3
early
12
on-time
12
early
3
early
Event Time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PARSE
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SUM
12:10:19
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22
3
12
12:10:19
TABLE
(TEAM SCORES)
STREAM
84
14
late
22
on-time
14
early
3
on-time
3
early
3
early
12
on-time
12
early
12:00
12:01
12:02
12:03
12:04
12:05
12:06
12:07
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12:09
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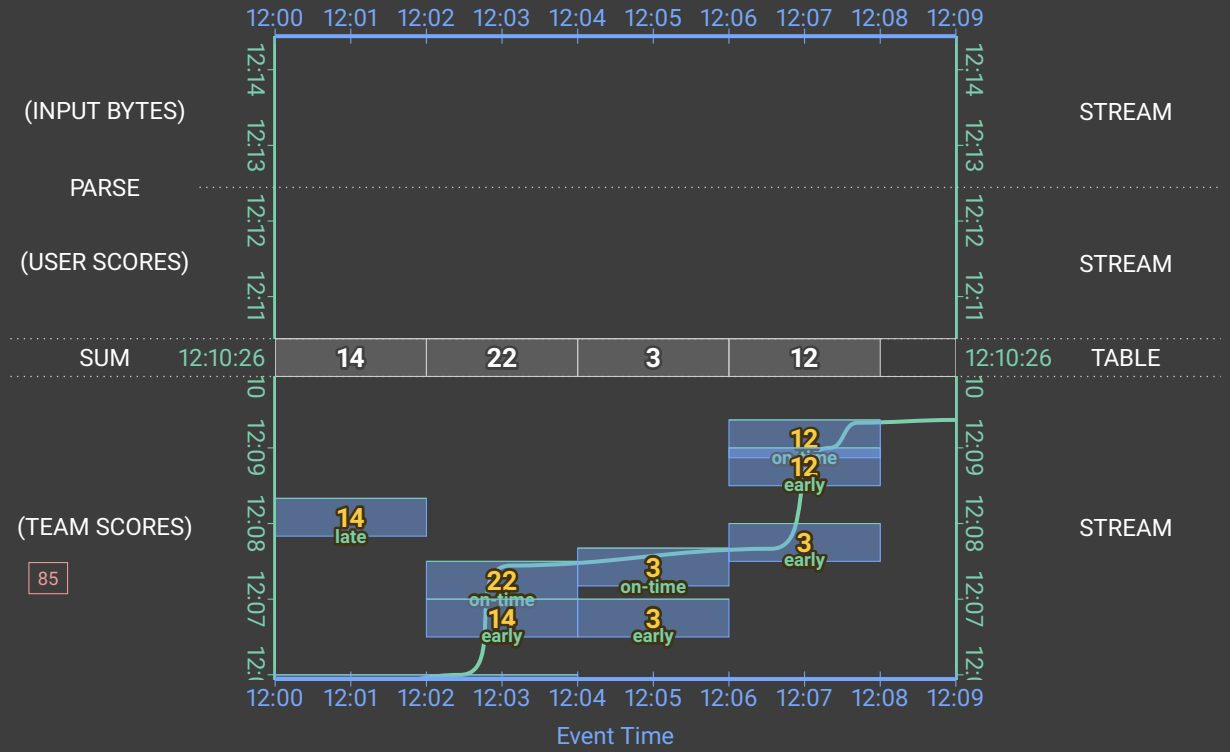
12:0
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:10:26
14
22
3
12
12:10:26
TABLE
(TEAM SCORES)
STREAM
85
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late
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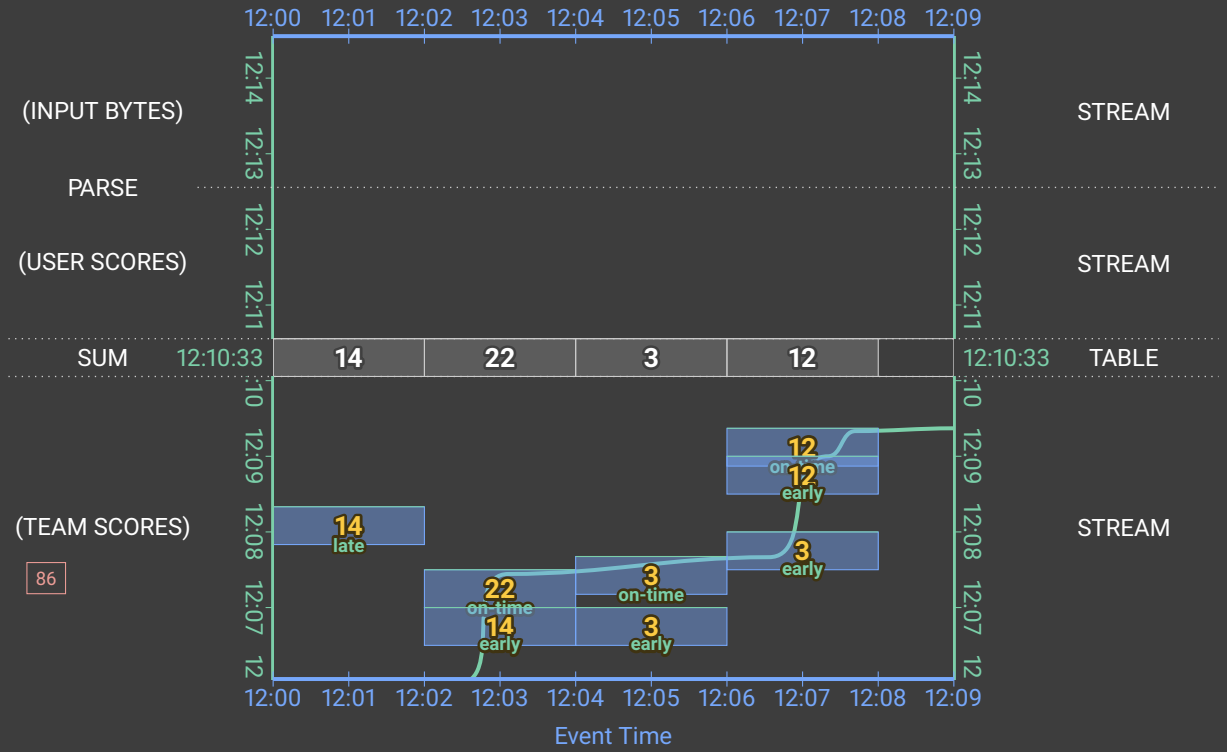
on-time
14
early
3
on-time
3
early
12
on-time
12
early
3
early
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
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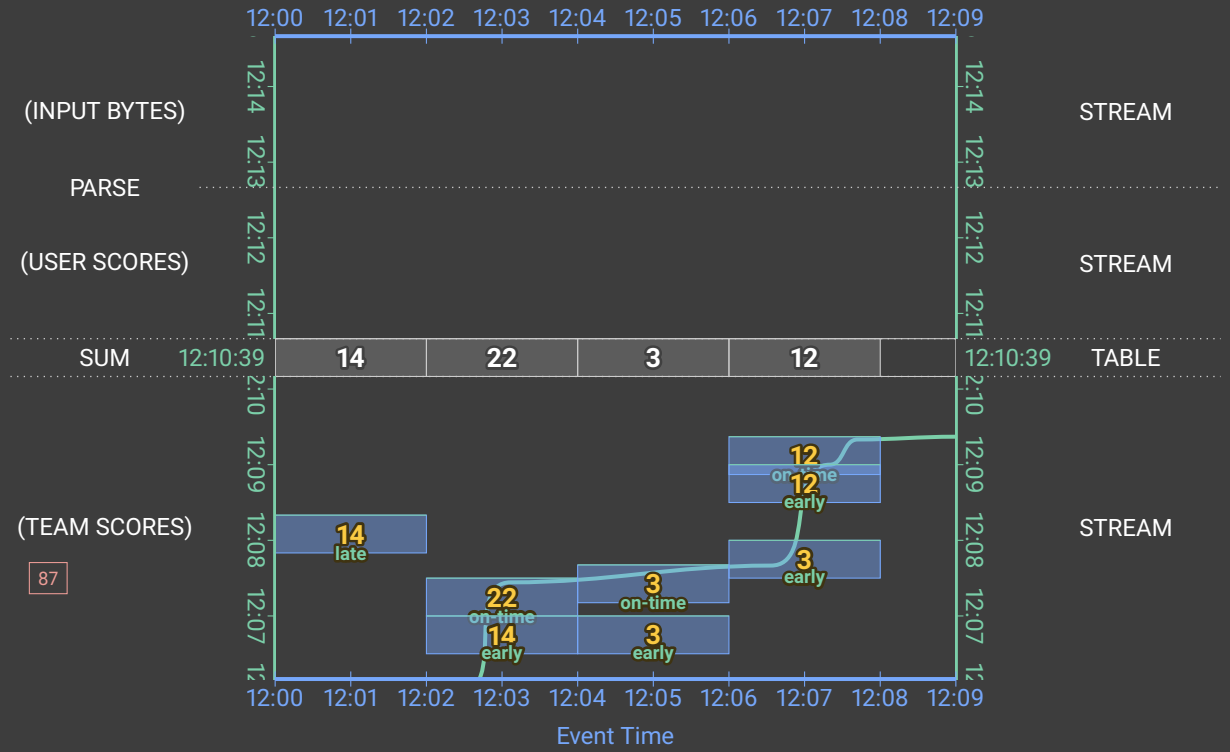
STREAM
SUM
12:10:33
14
22
3
12
12:10:33
TABLE
(TEAM SCORES)
STREAM
14
late
22
on-time
14
early
3
on-time
3
early
12
on-time
12
early
3
early
86
Event Time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STREAM
PARSE
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STREAM
SUM
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22
3
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12:10:39
TABLE
(TEAM SCORES)
STREAM
87
14
late
22
on-time
14
early
3
on-time
3
early
12
on-time
12
early
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early
12:00
12:01
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12:06
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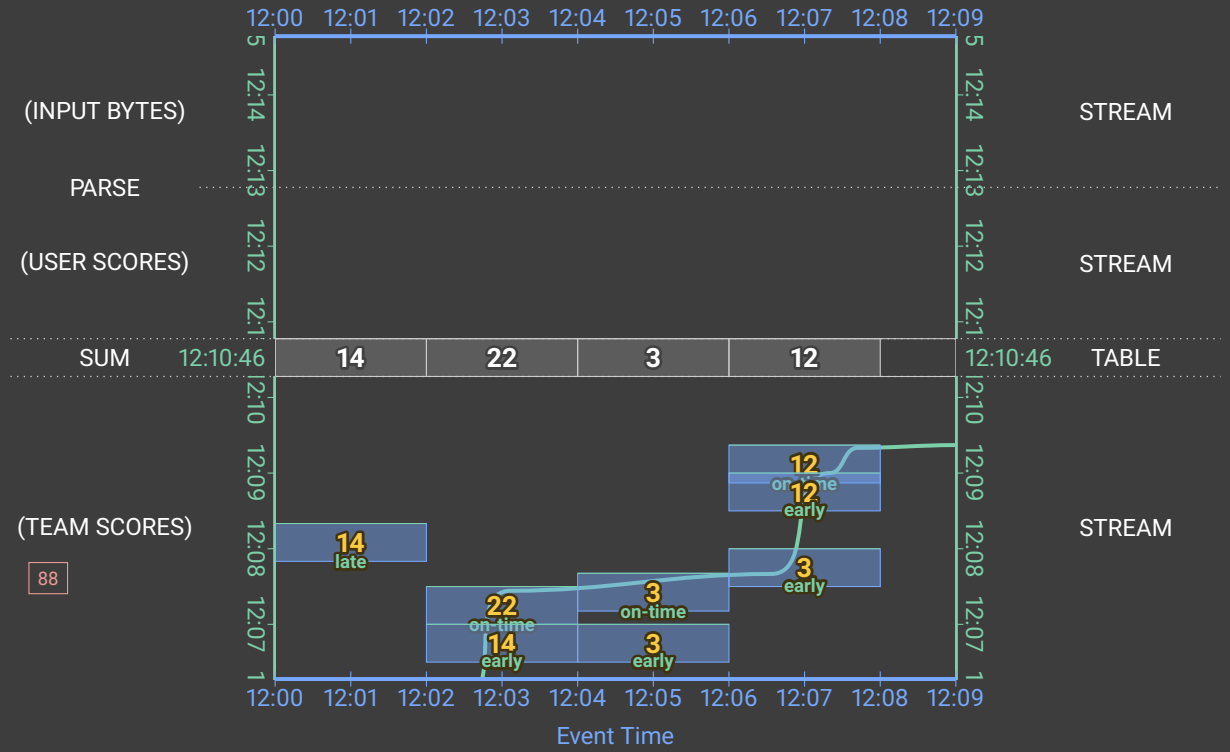
12:08
12:09
Event Time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PARSE
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STREAM
SUM
12:10:46
14
22
3
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12:10:46
TABLE
(TEAM SCORES)
STREAM
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late
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on-time
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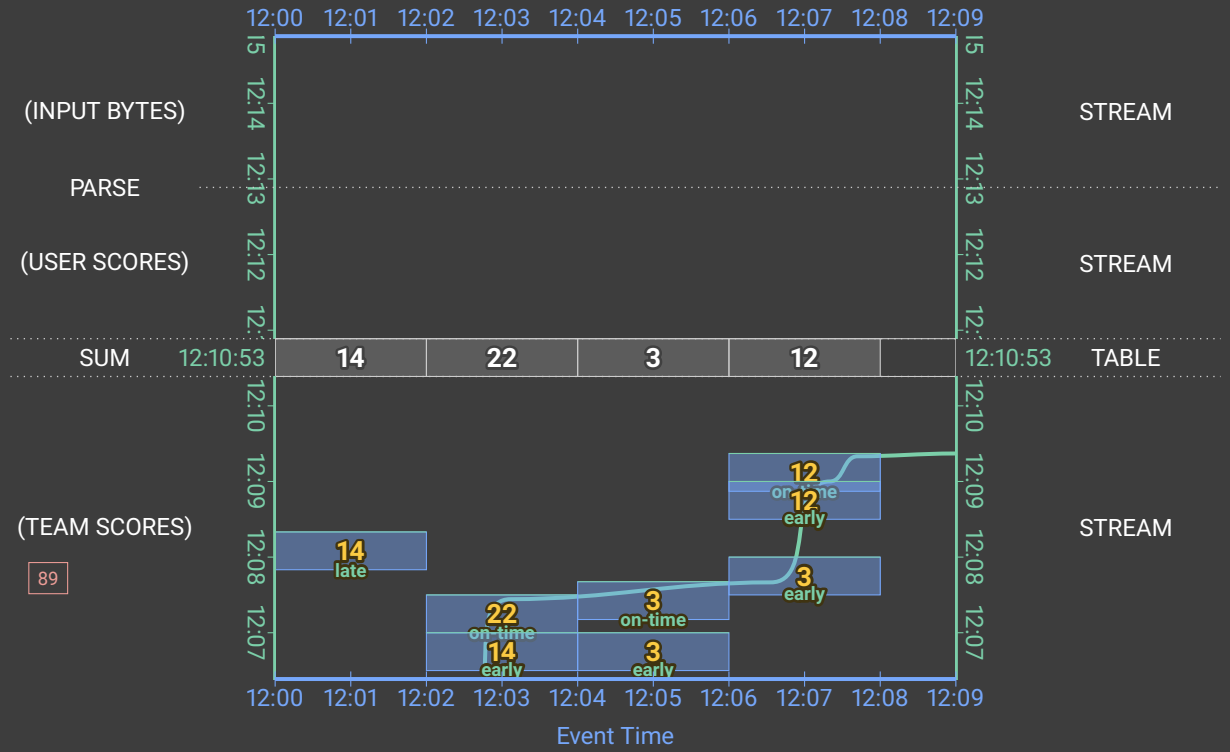
early
3
on-time
3
early
12
on-time
12
early
3
early
Event Time


(INPUT BYTES)
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STREAM
SUM
12:10:53
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22
3
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12:10:53
TABLE
(TEAM SCORES)
STREAM
89
14
late
22
on-time
14
early
3
on-time
3
early
12
on-time
12
early
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early
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12:01
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12:06
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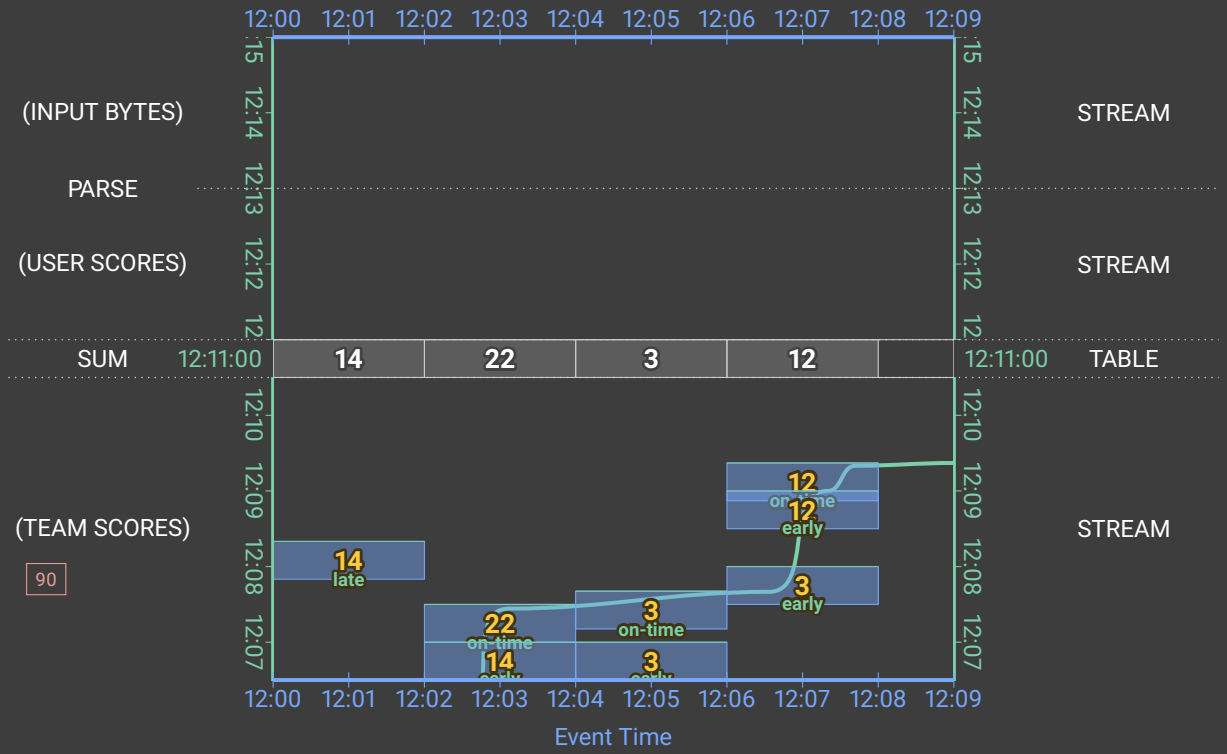
12:08
12:09
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:11:00
14
22
3
12
12:11:00
TABLE
(TEAM SCORES)
90
STREAM
14
late
22
on-time
14
early
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on-time
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early
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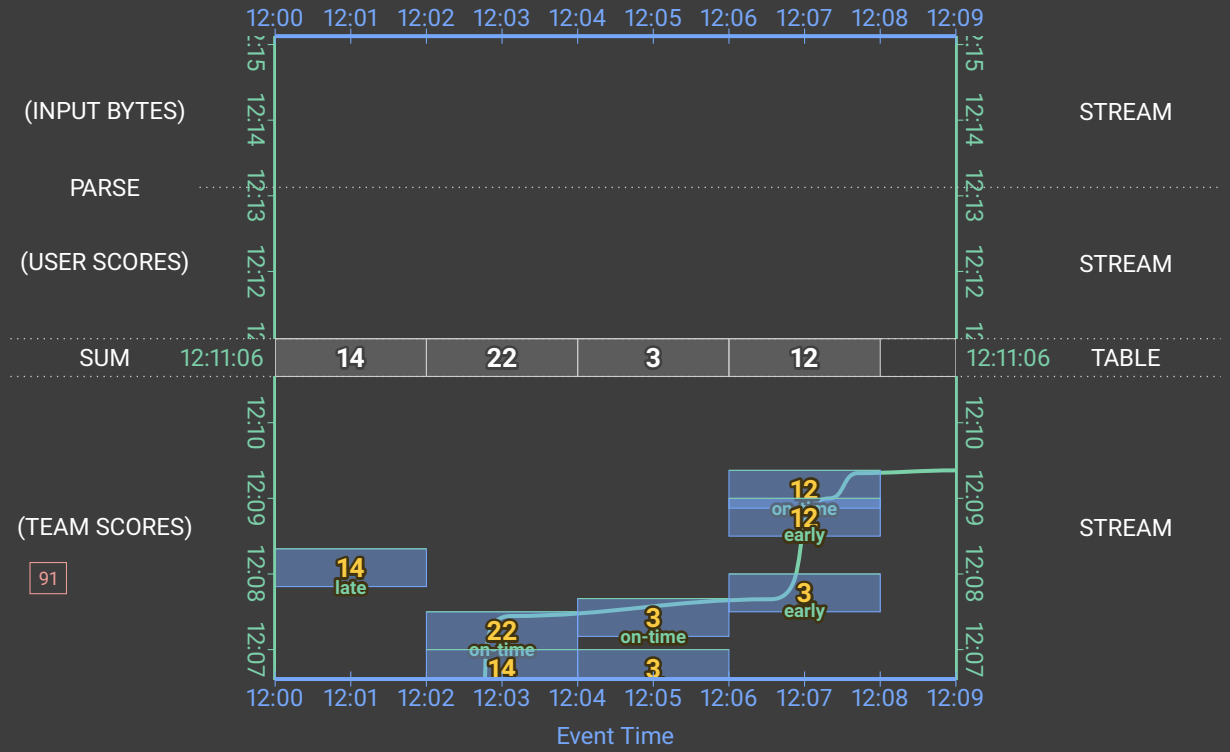
on-time
12
early
12:07 12:08 12:09 12:10 12:11 12:12 12:13 12:14 12:15
Event Time


(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:11:06
14
22
3
12
12:11:06
TABLE
(TEAM SCORES)
91
STREAM
14
late
22
on-time
14
3
on-time
3
12
on-time
12
early
3
early
12:00
12:01
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12:05
12:06
12:07
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12:07
12:08
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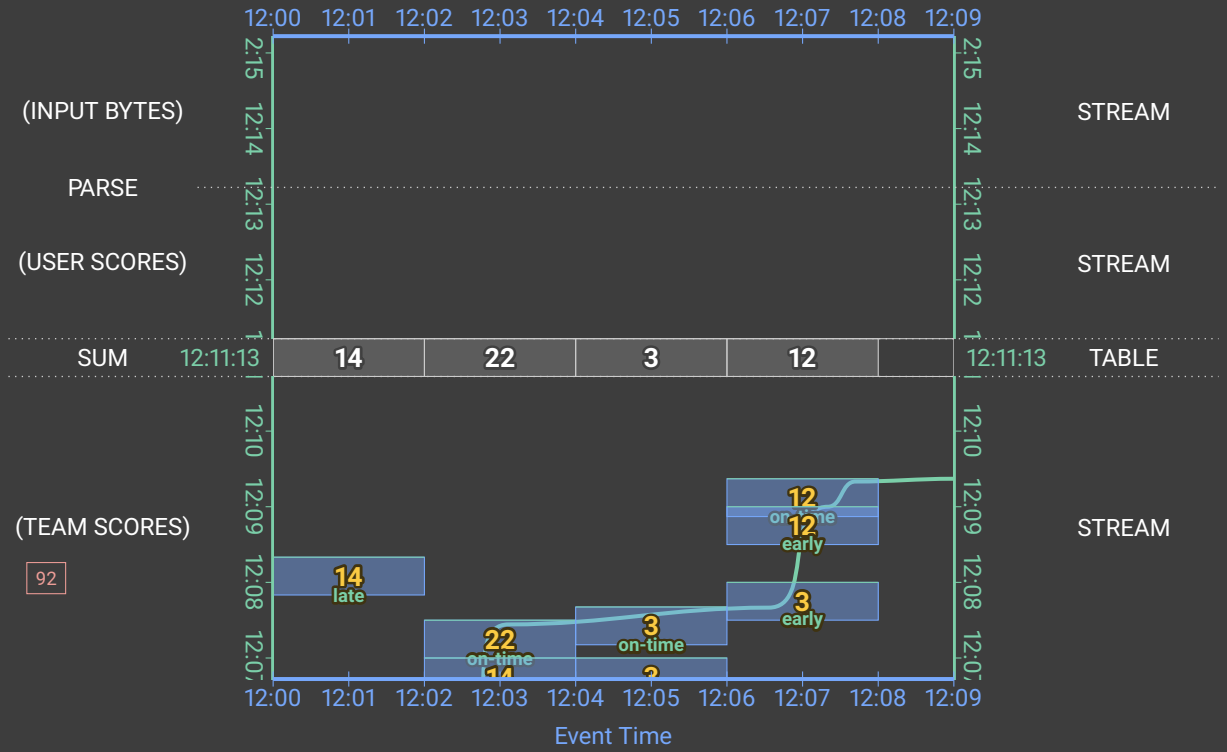
12:14
12:15
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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STREAM
PARSE
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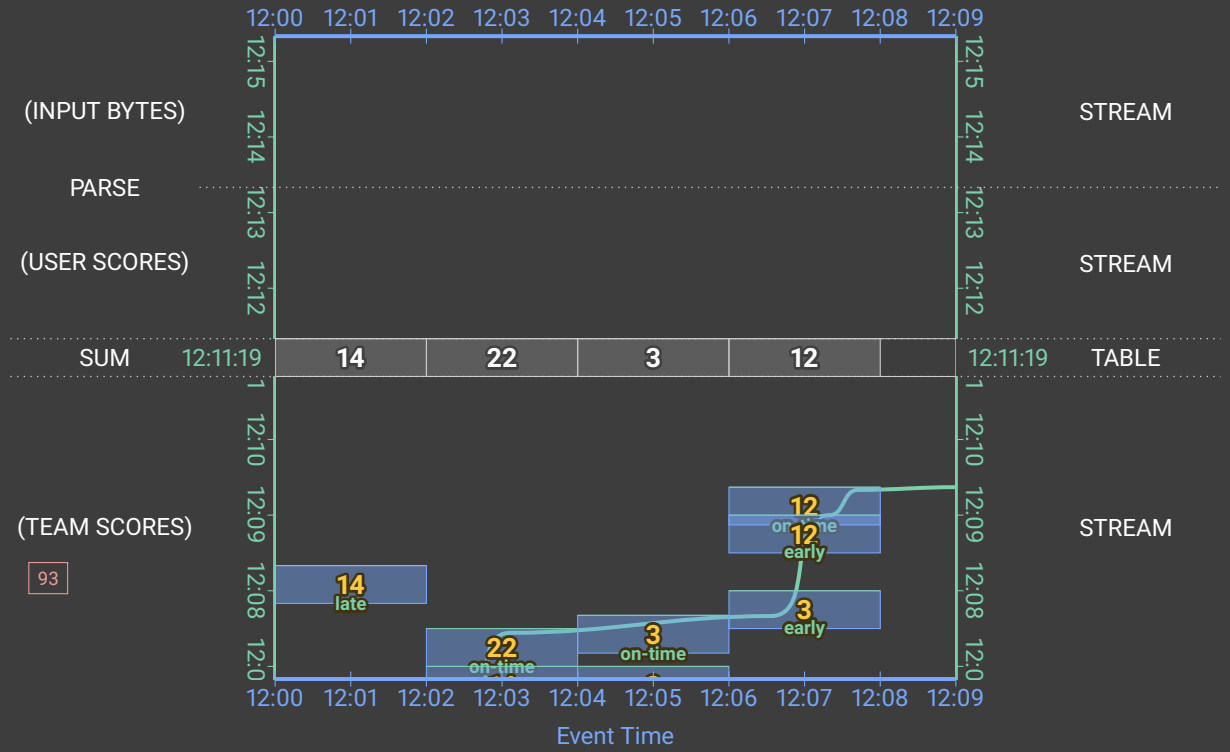
STREAM
SUM
12:11:13
14
22
3
12
12:11:13
TABLE
(TEAM SCORES)
STREAM
92
14
late
22
on-time
3
on-time
3
early
12
on-time
12
early
Event Time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PARSE
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3
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TABLE
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STREAM
93
14
late
22
on-time
3
on-time
3
early
12
on-time
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early
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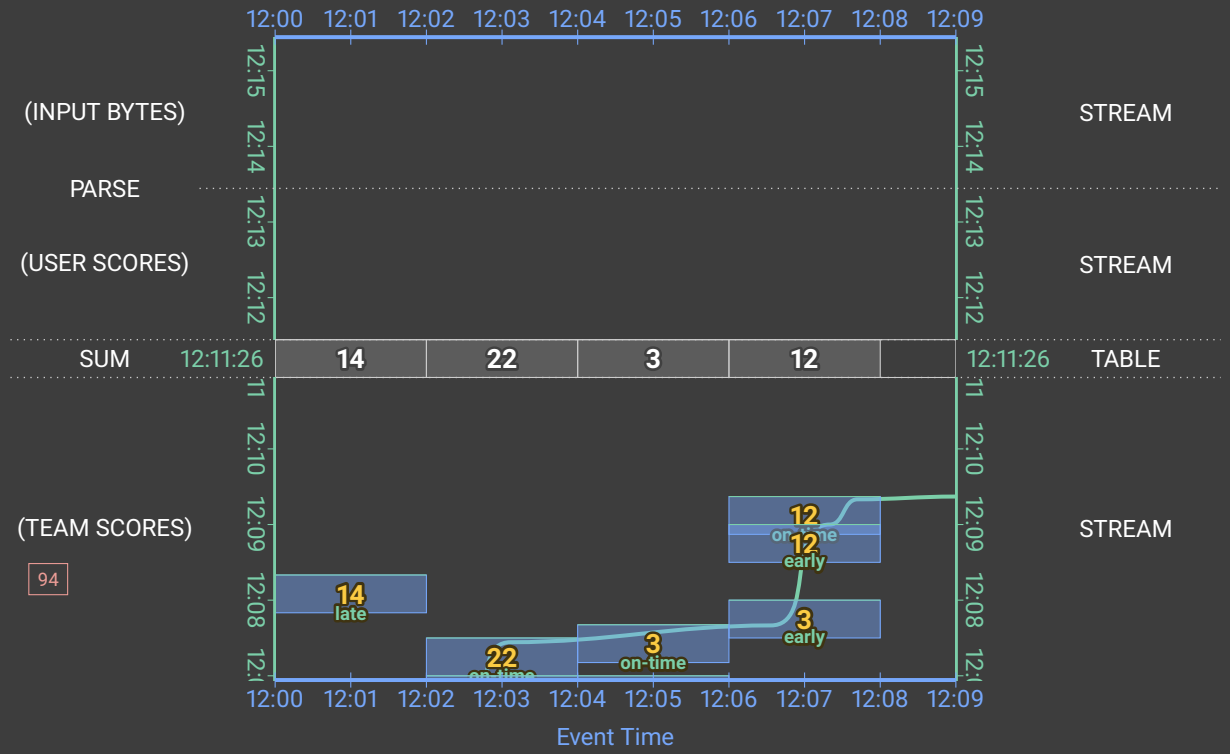
12:09
Event Time


(INPUT BYTES)
STREAM
PARSE
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SUM
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22
3
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TABLE
(TEAM SCORES)
STREAM
94
14
late
22
on-time
3
on-time
3
early
12
on-time
12
early
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12:01
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12:03
12:04
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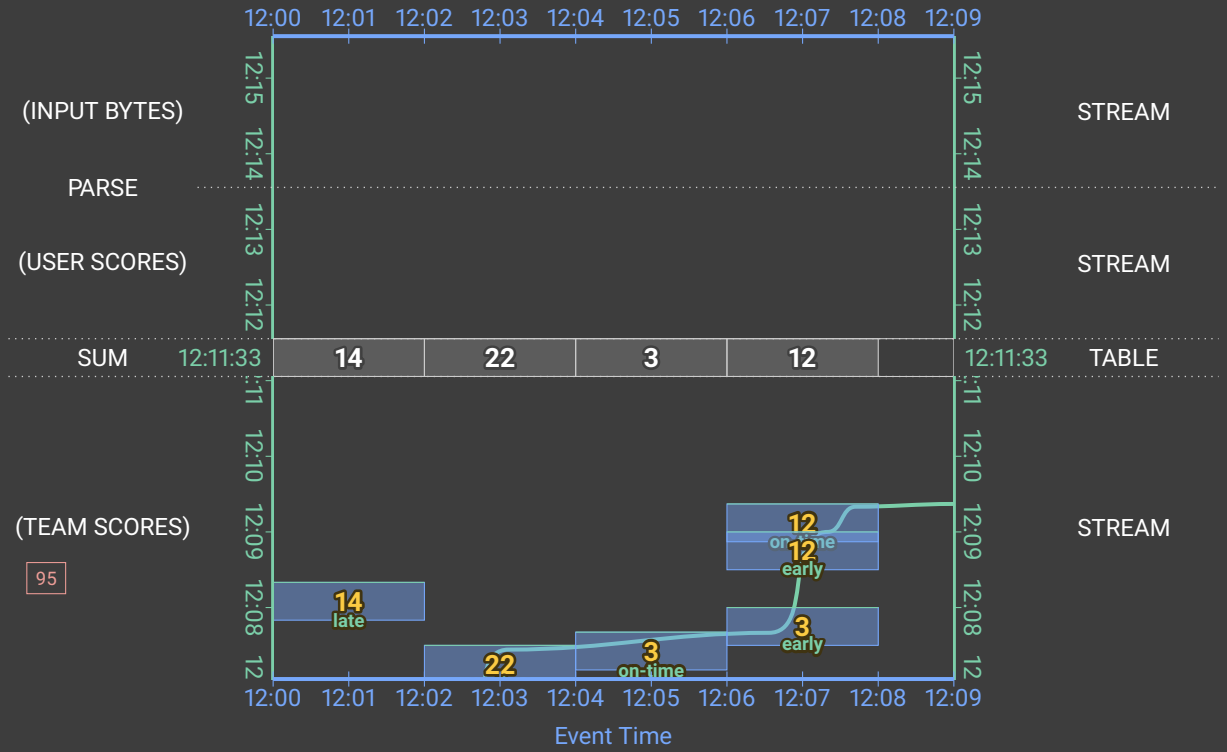
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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STREAM
PARSE
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STREAM
SUM
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22
3
12
12:11:33
TABLE
(TEAM SCORES)
STREAM
95
14
late
22
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on-time
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early
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early
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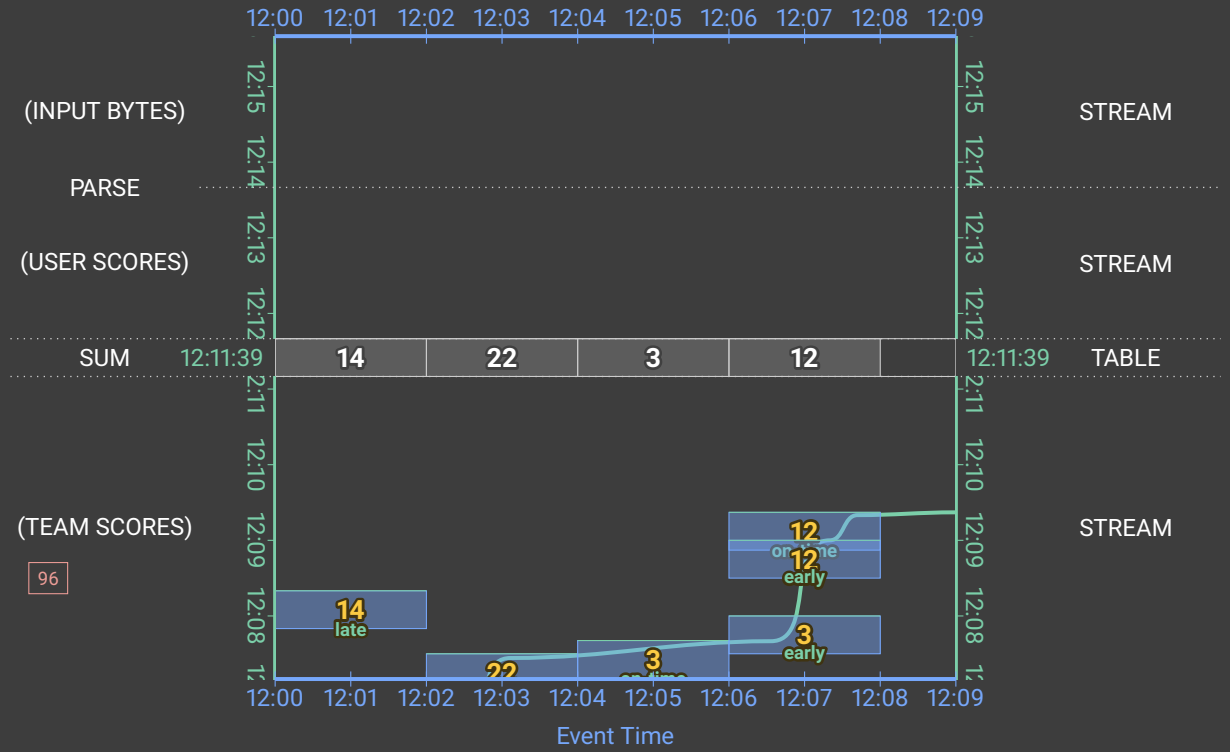
Event Time


(INPUT BYTES)
STREAM
PARSE
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SUM
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TABLE
(TEAM SCORES)
STREAM
96
14
late
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3
12
early
3
early
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12:02
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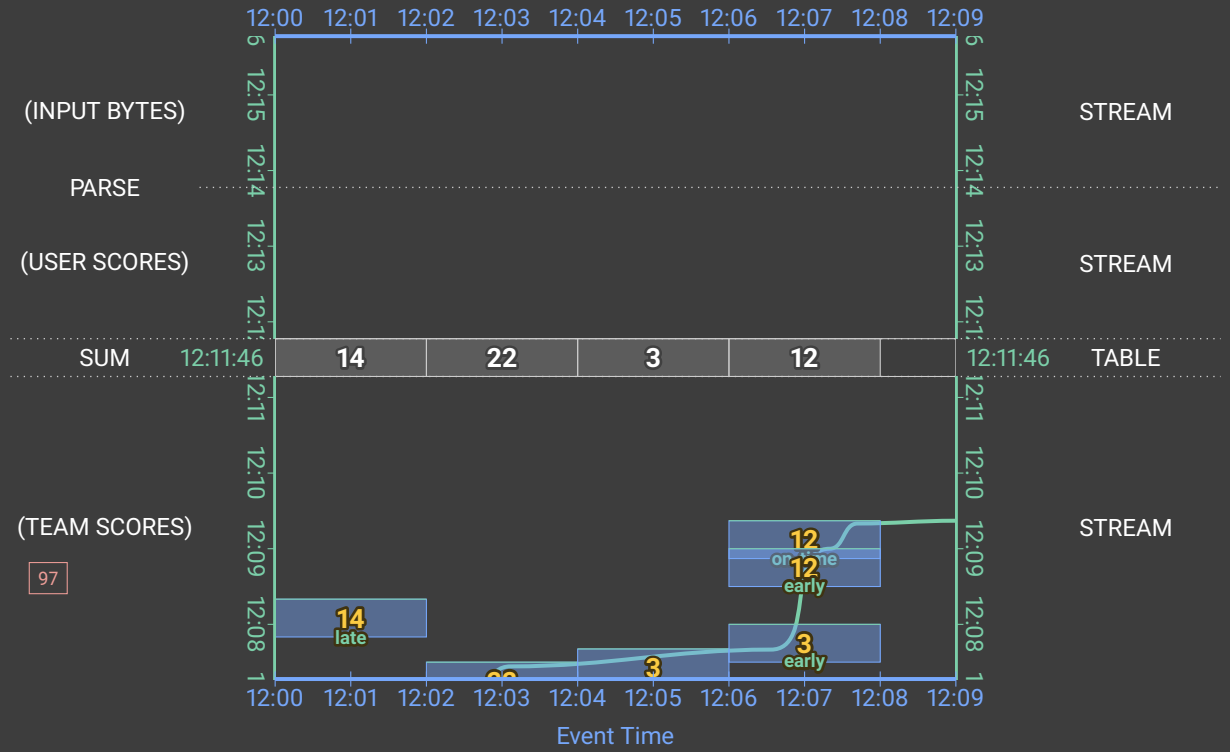
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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SUM
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12:11:46
TABLE
(TEAM SCORES)
STREAM
97
14
late
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early
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on time
12
early
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time

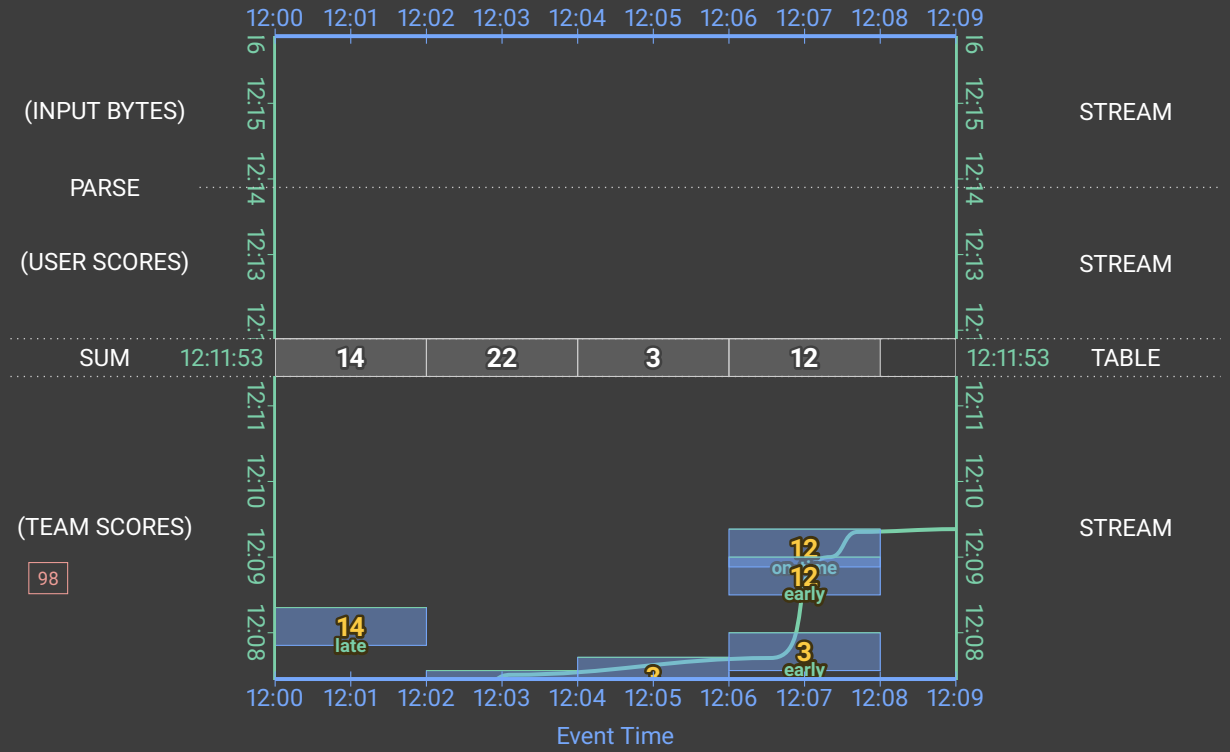
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TABLE
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98
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late
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on time
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early
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early
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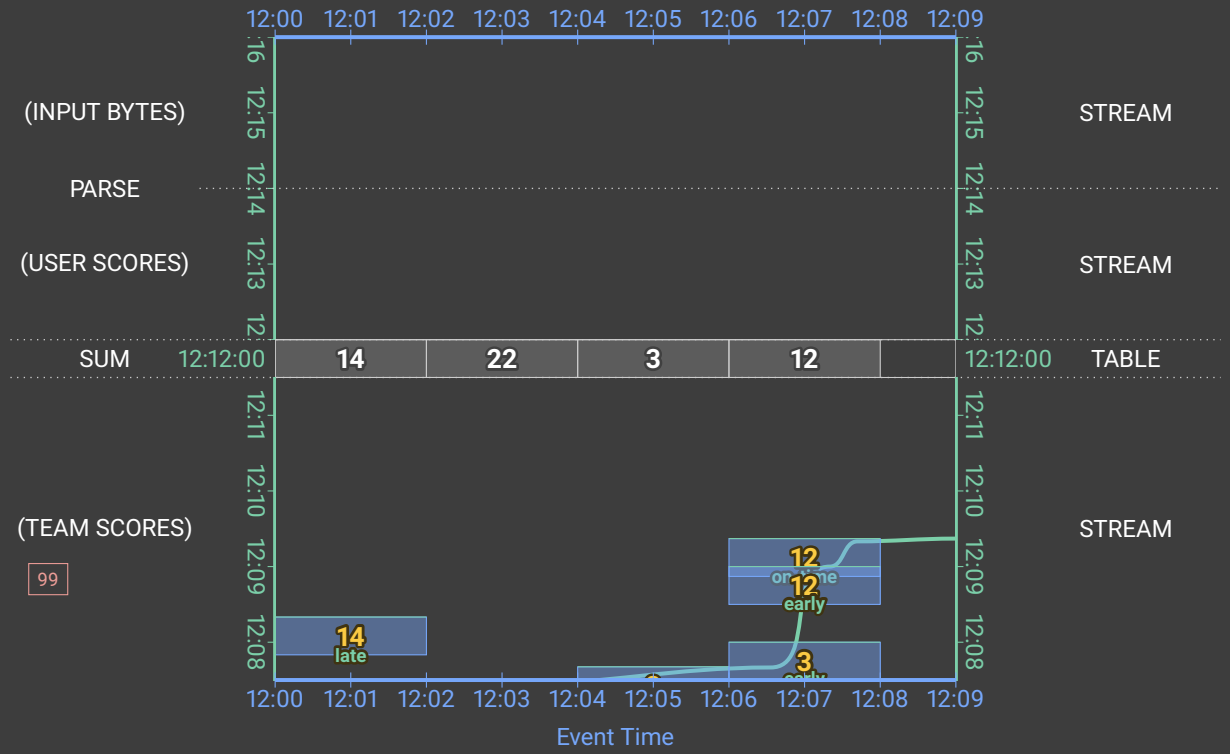
Event Time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SUM
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12
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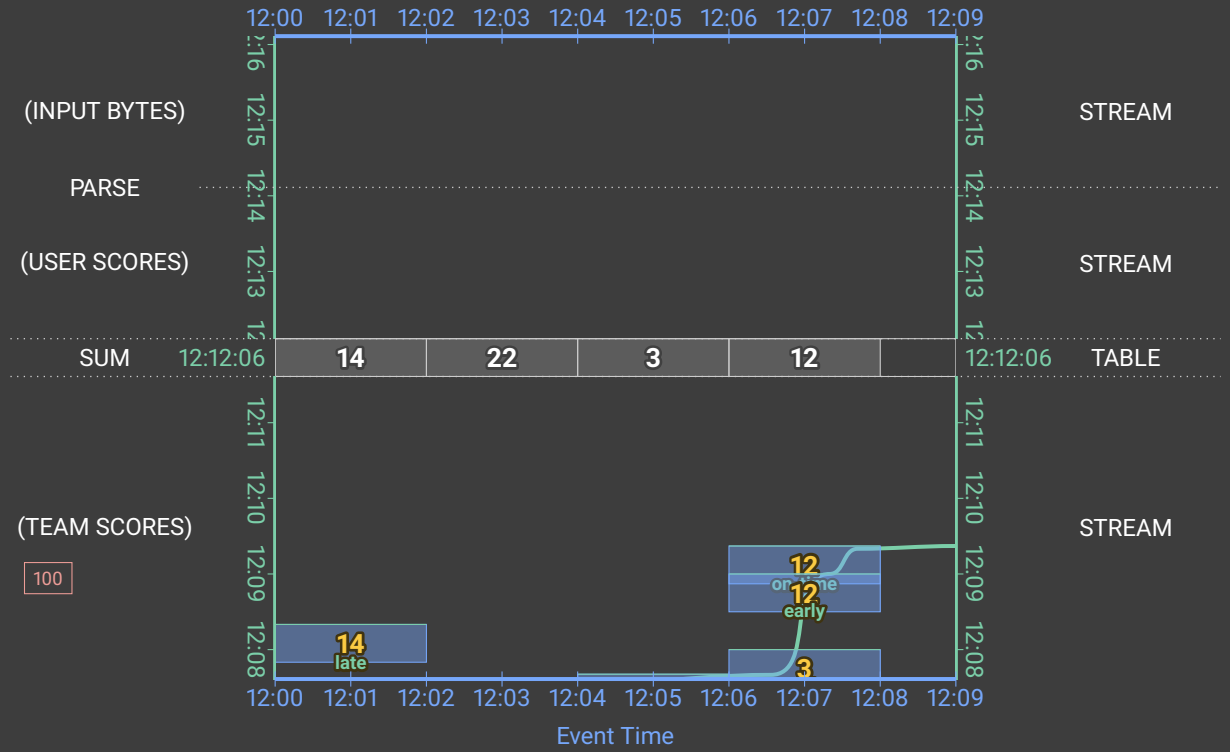
3
Event Time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SUM
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22
3
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TABLE
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late
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on time
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early
3
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Event Time

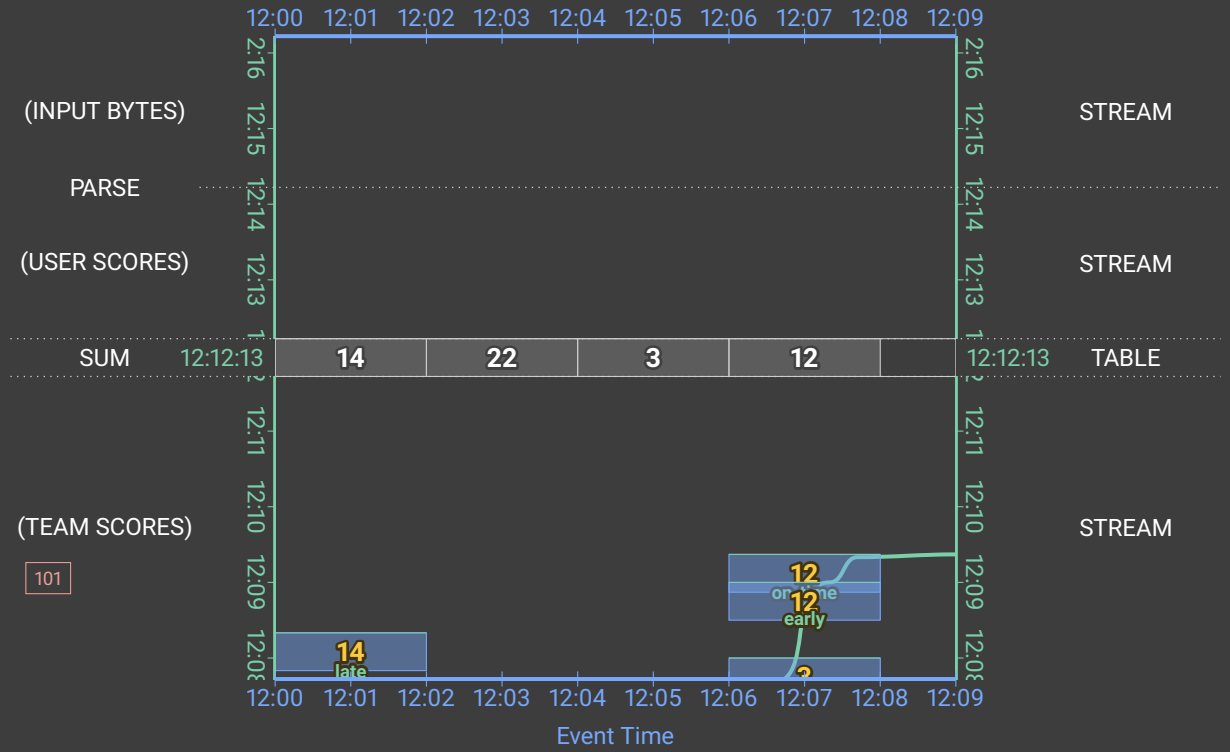
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TABLE
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STREAM
101
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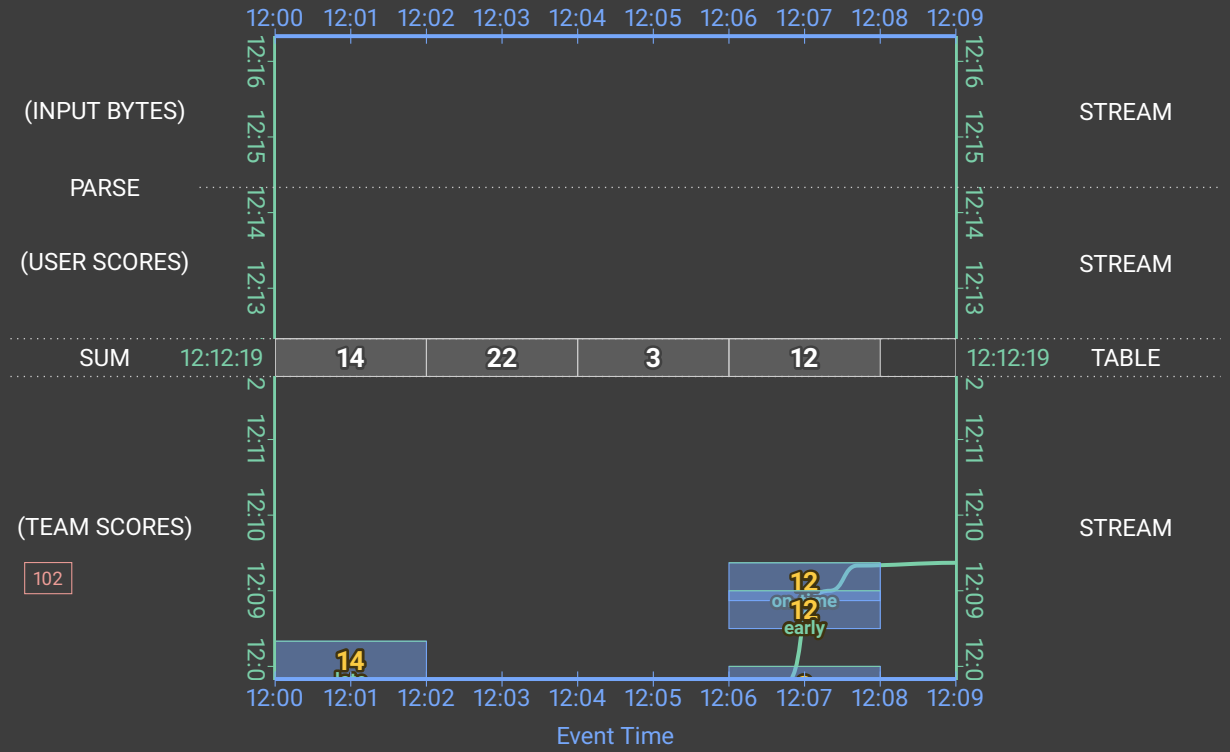
late
12
12
early
Event Time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102
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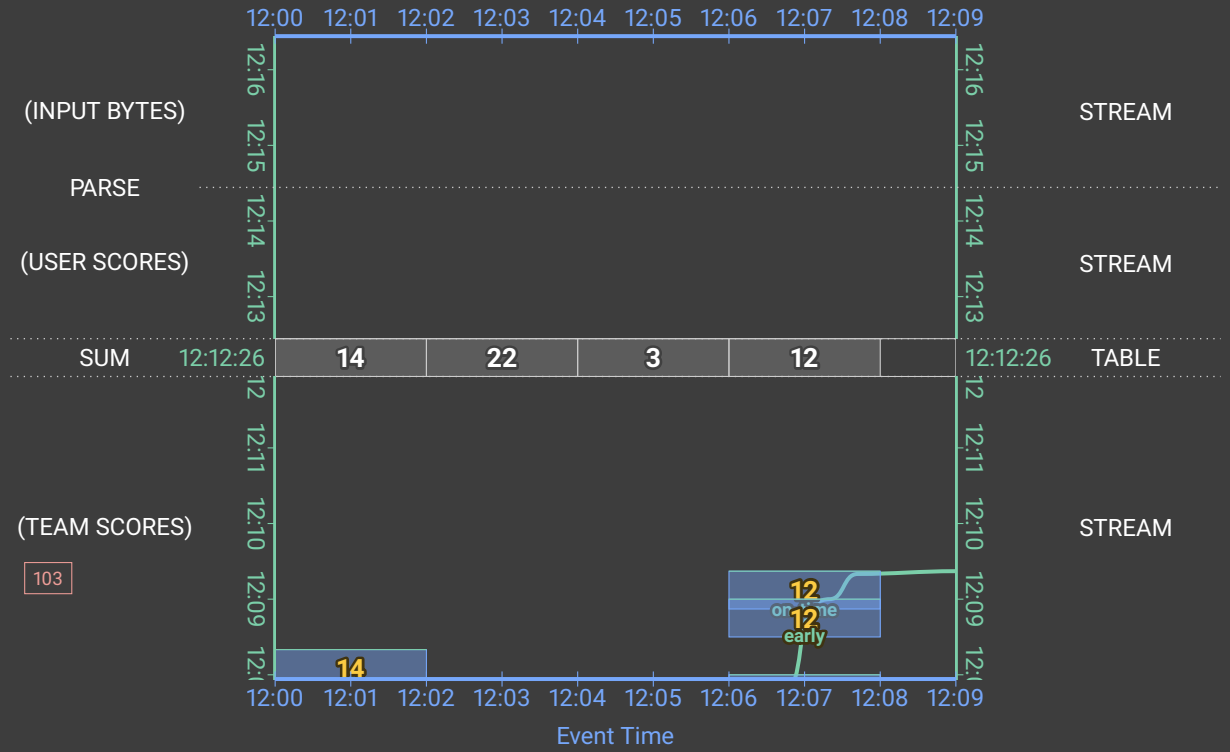
14
Event Time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103
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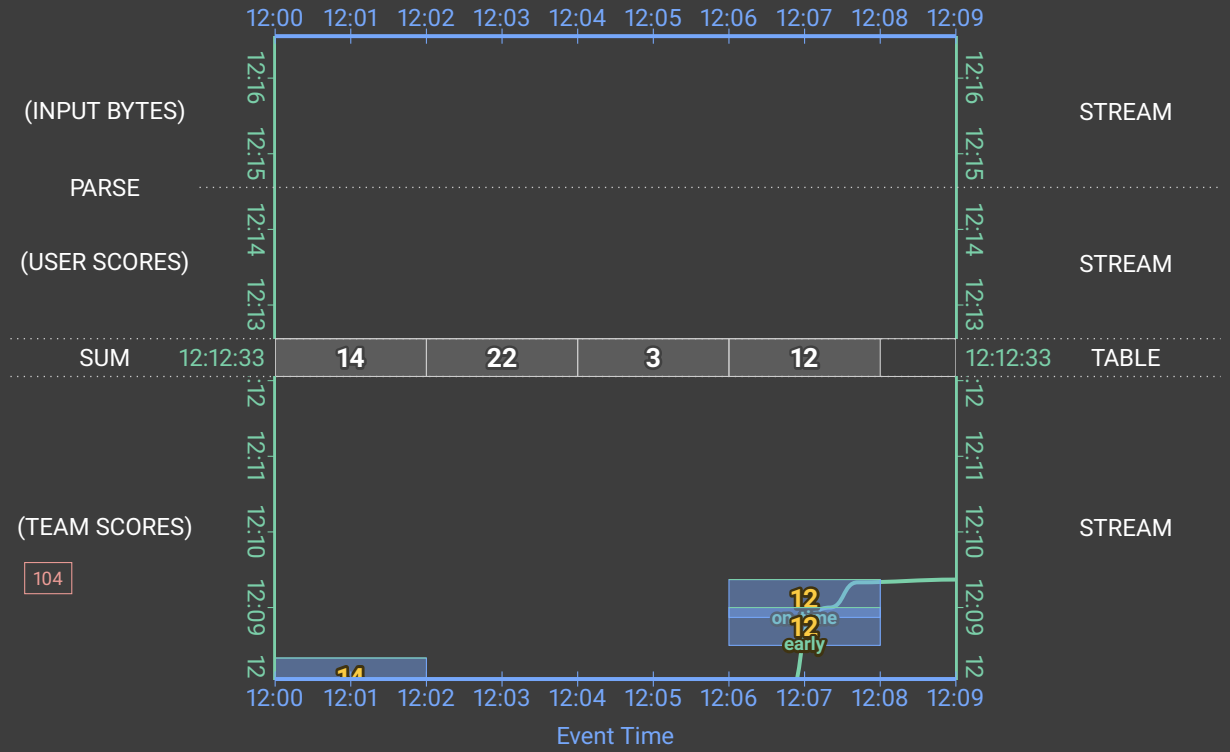
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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SUM
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3
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TABLE
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104
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early
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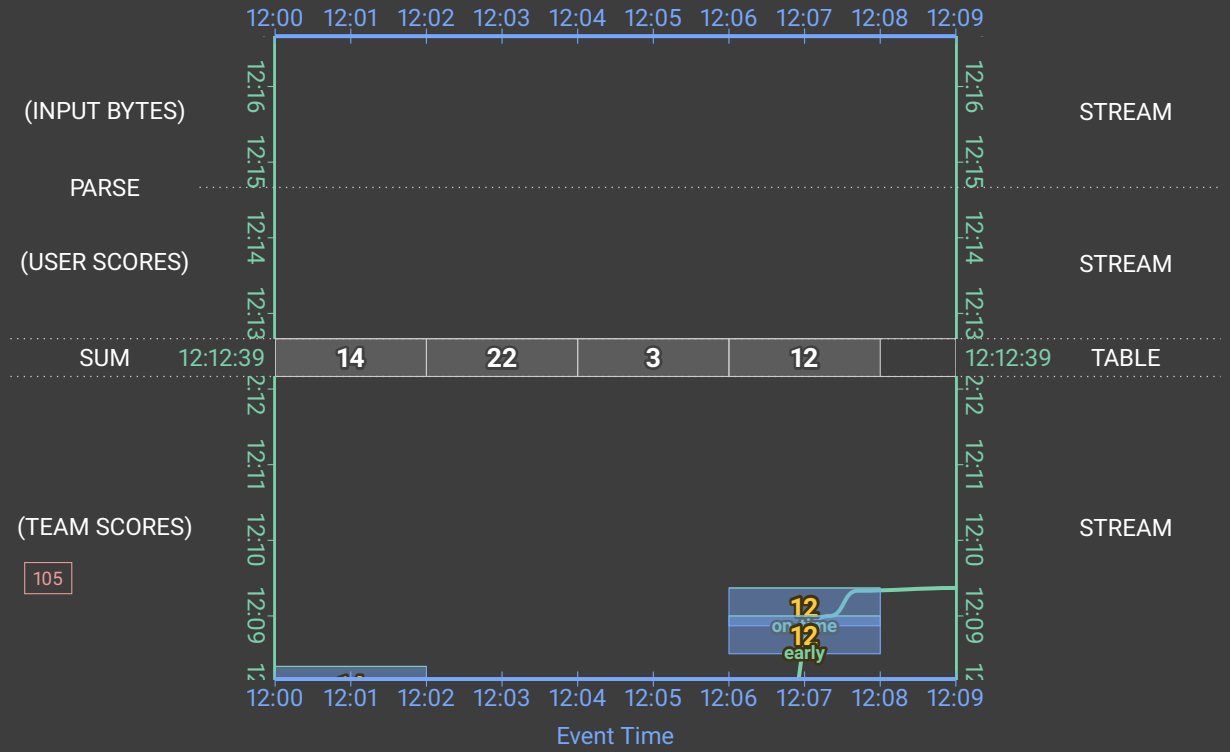
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time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SUM
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22
3
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TABLE
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on time
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early
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time

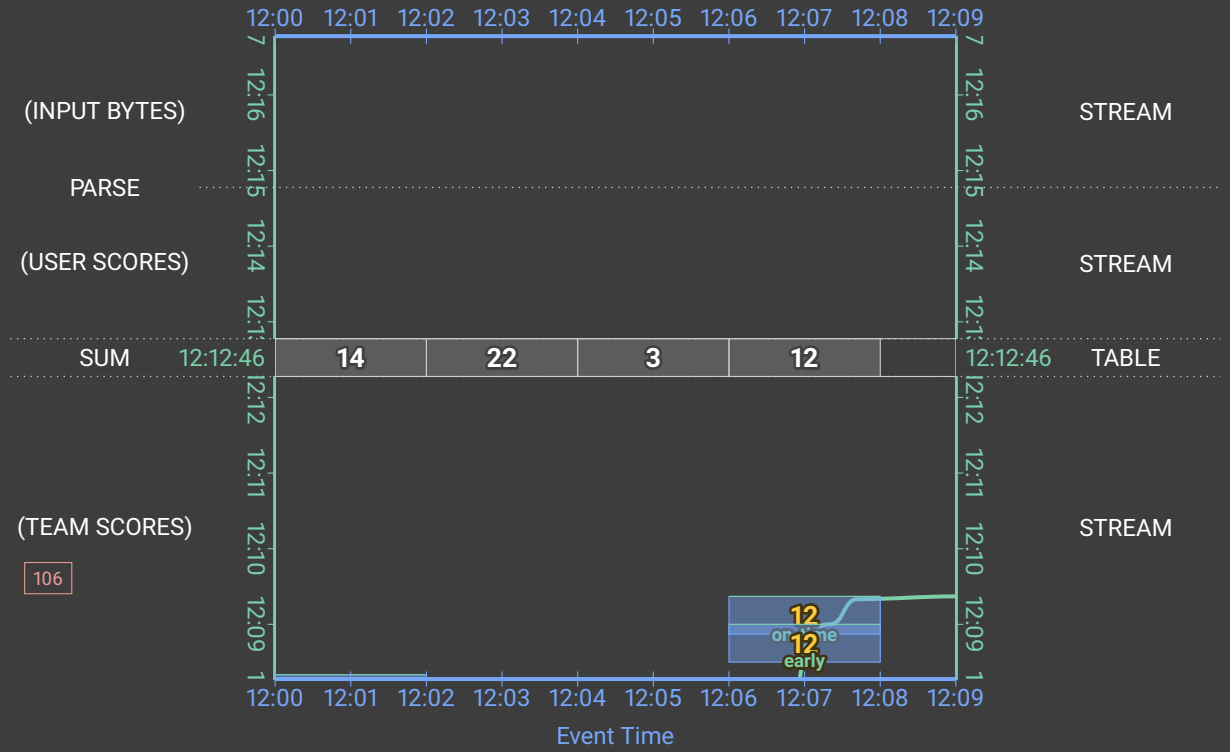
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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TABLE
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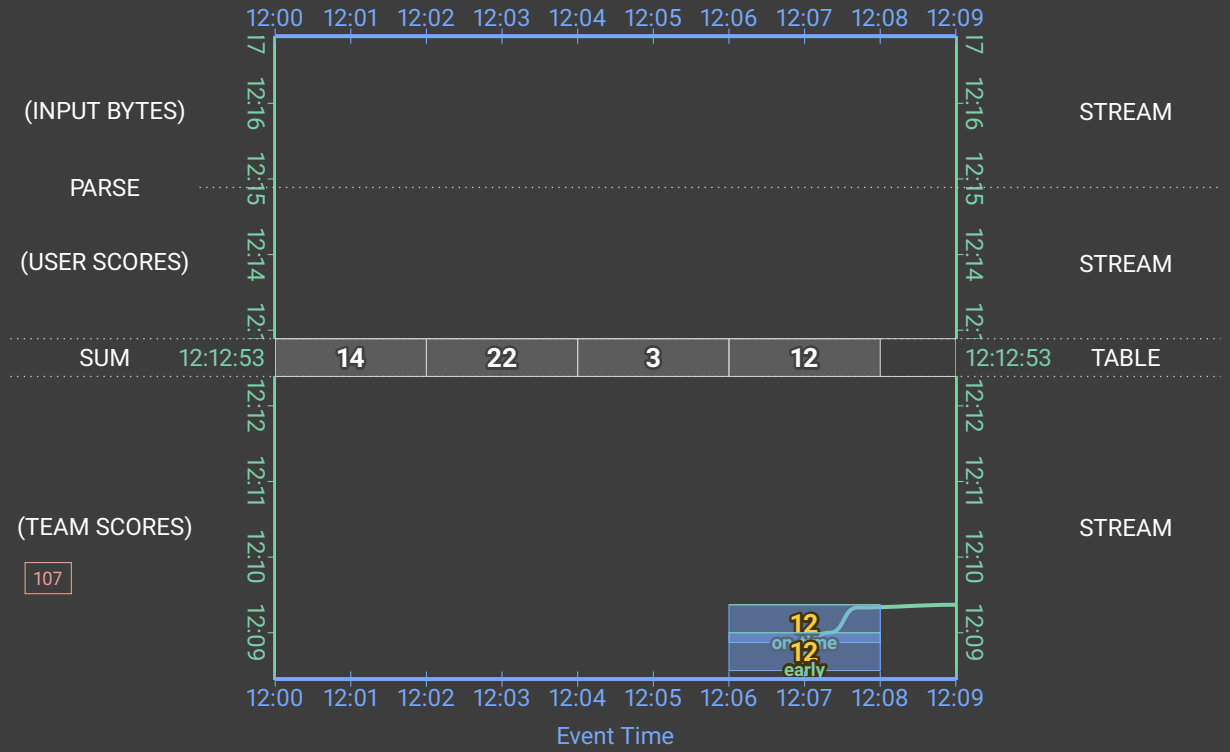
STREAM
106
12
12
early
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
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SUM
12:12:53
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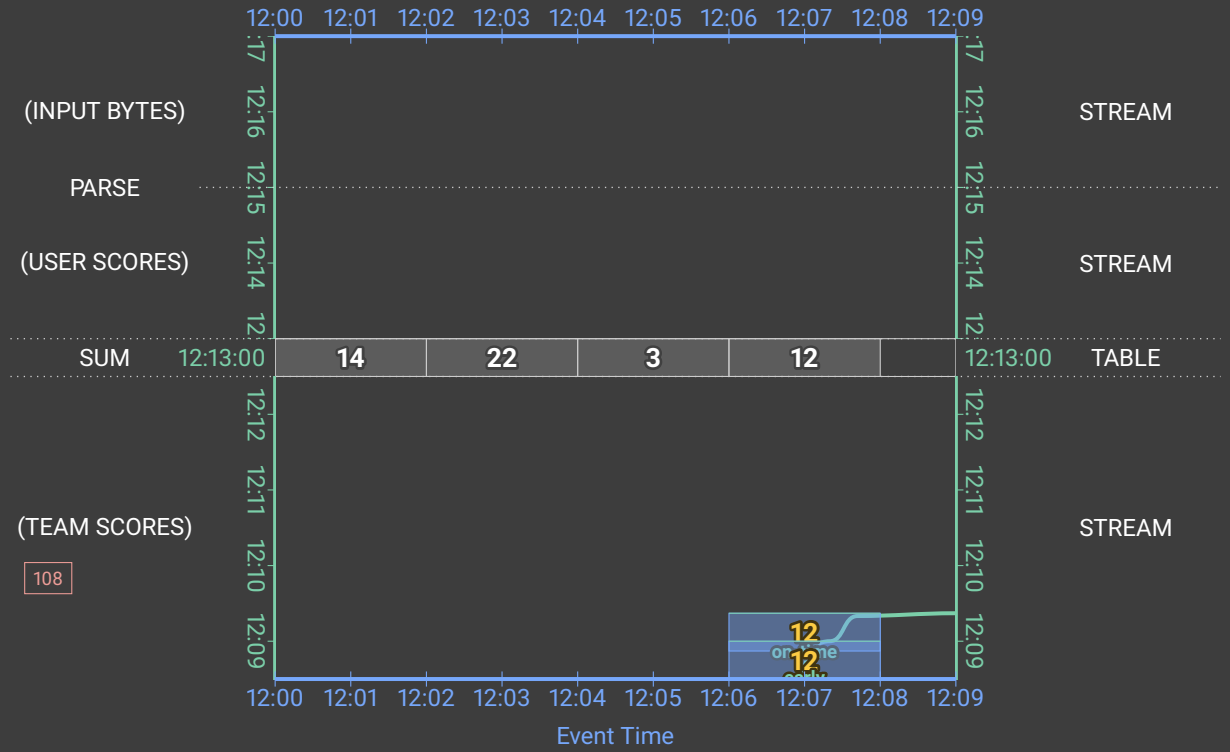
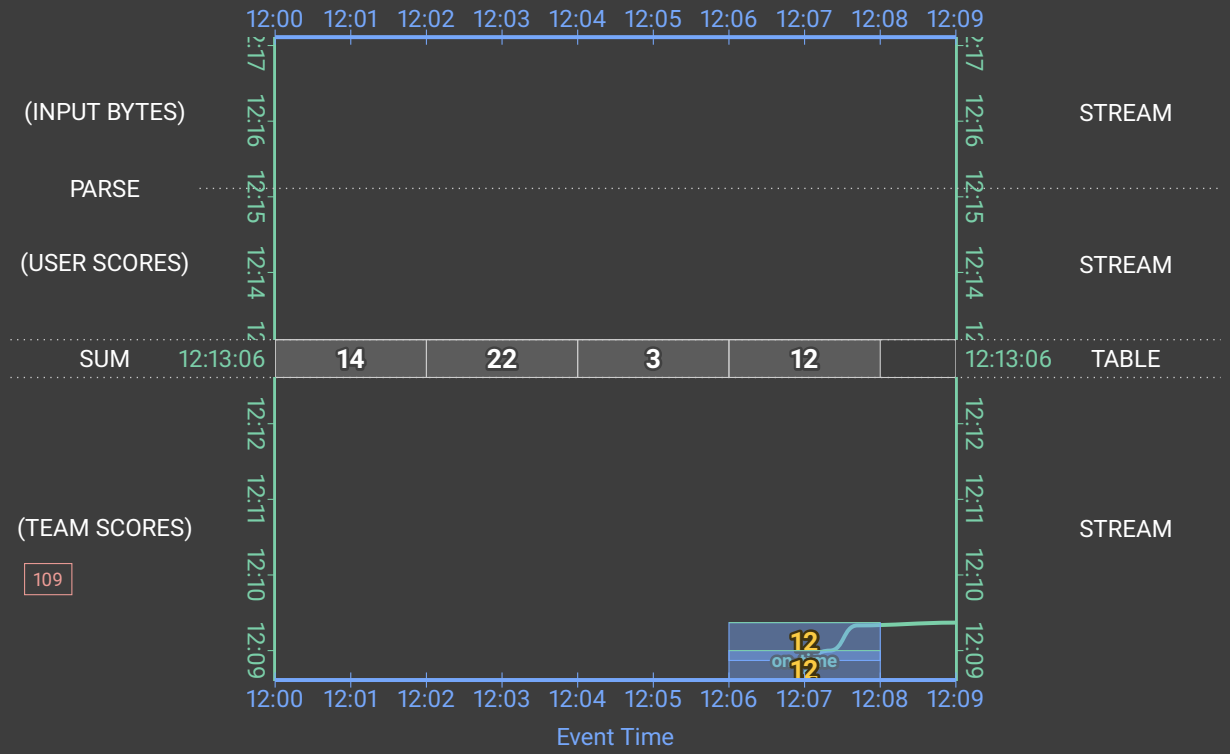
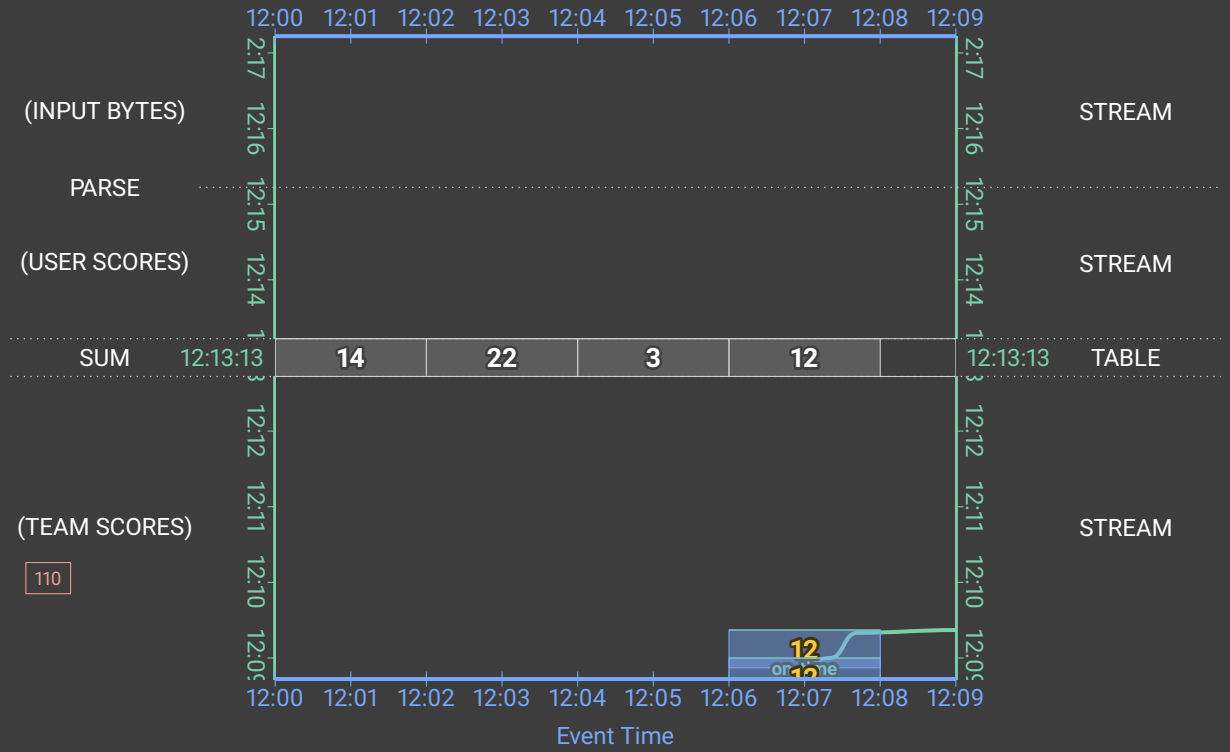
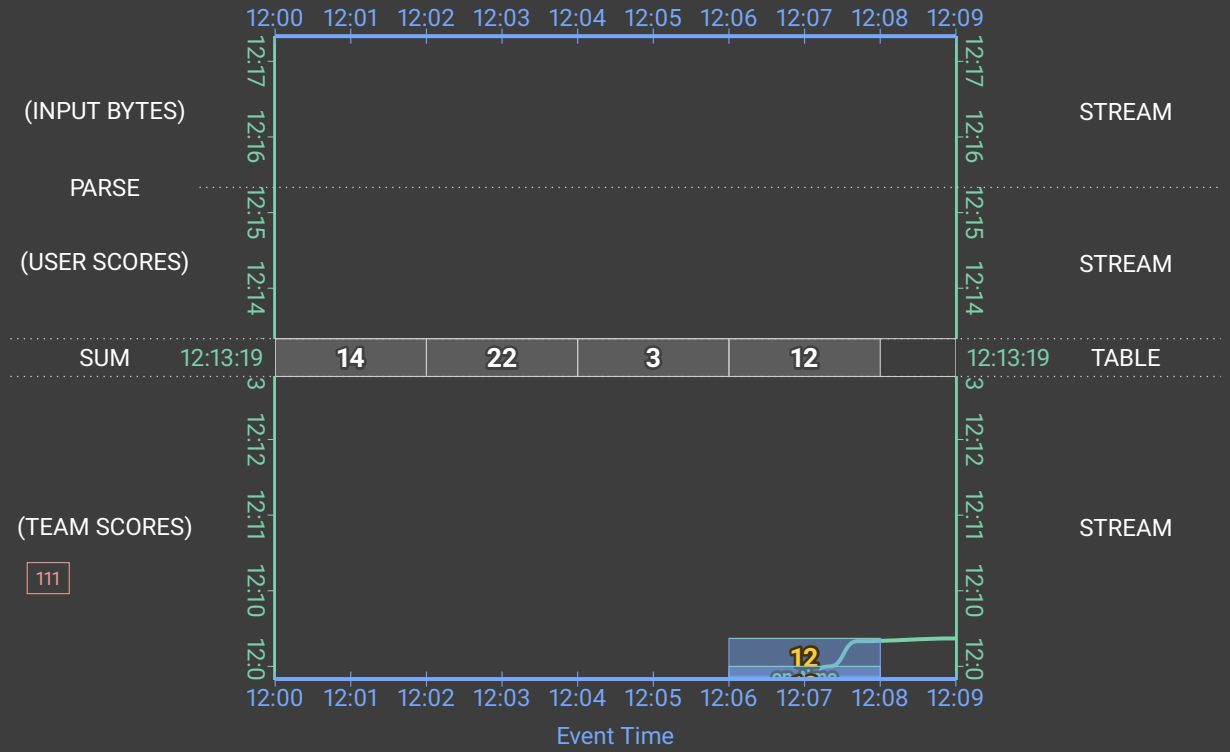
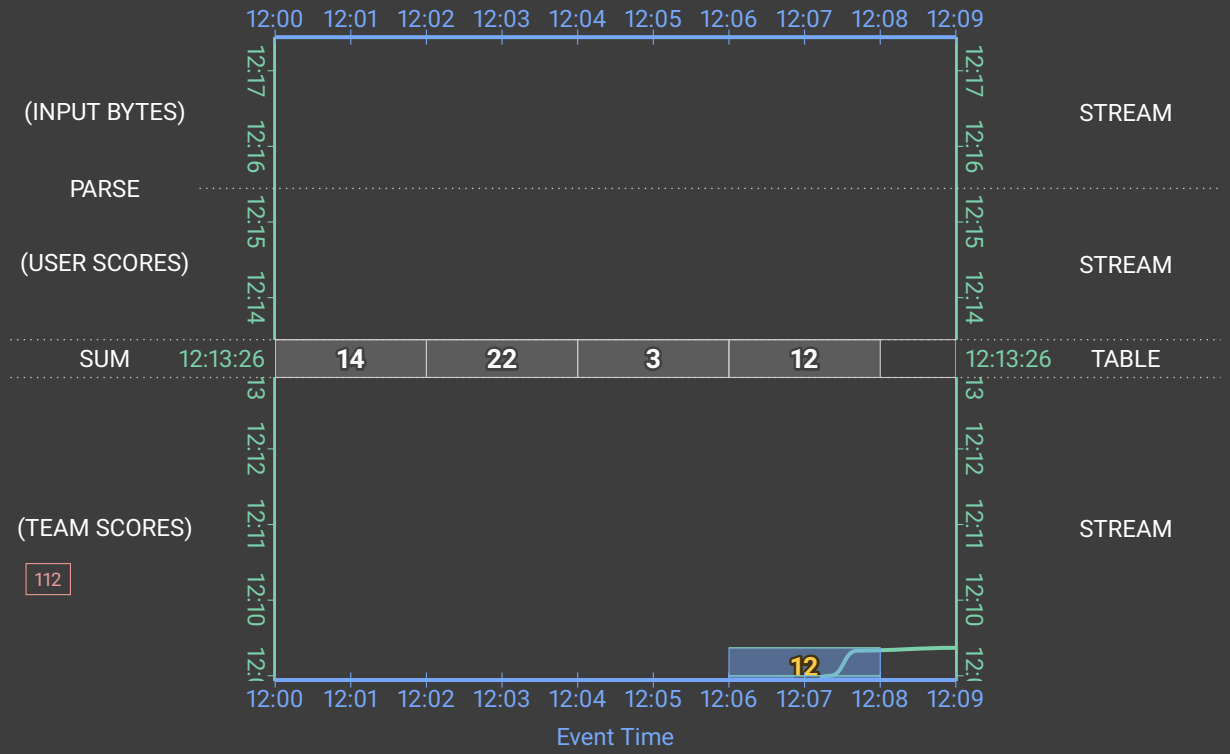
22
3
12
12:12:53
TABLE
(TEAM SCORES)
STREAM
107
12
on time
12
early
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time

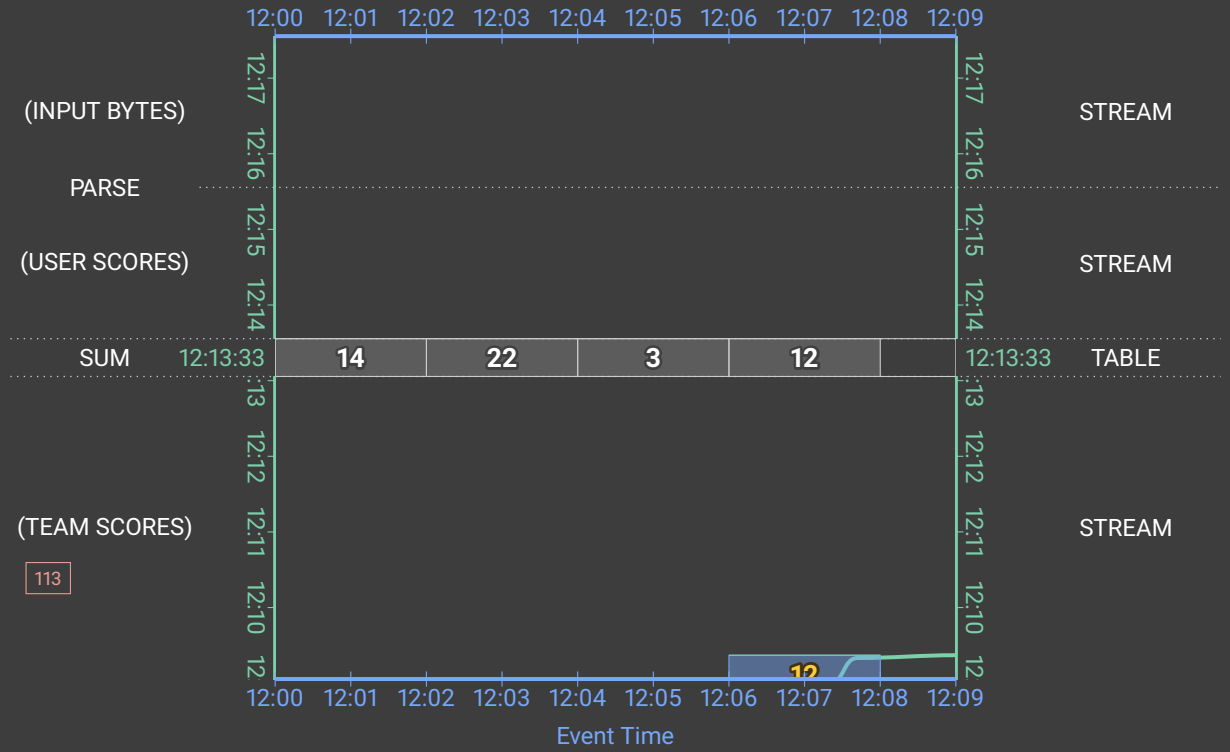

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:00
14
22
3
12
12:13:00
TABLE
(TEAM SCORES)
STREAM
108
12
12
Event Time

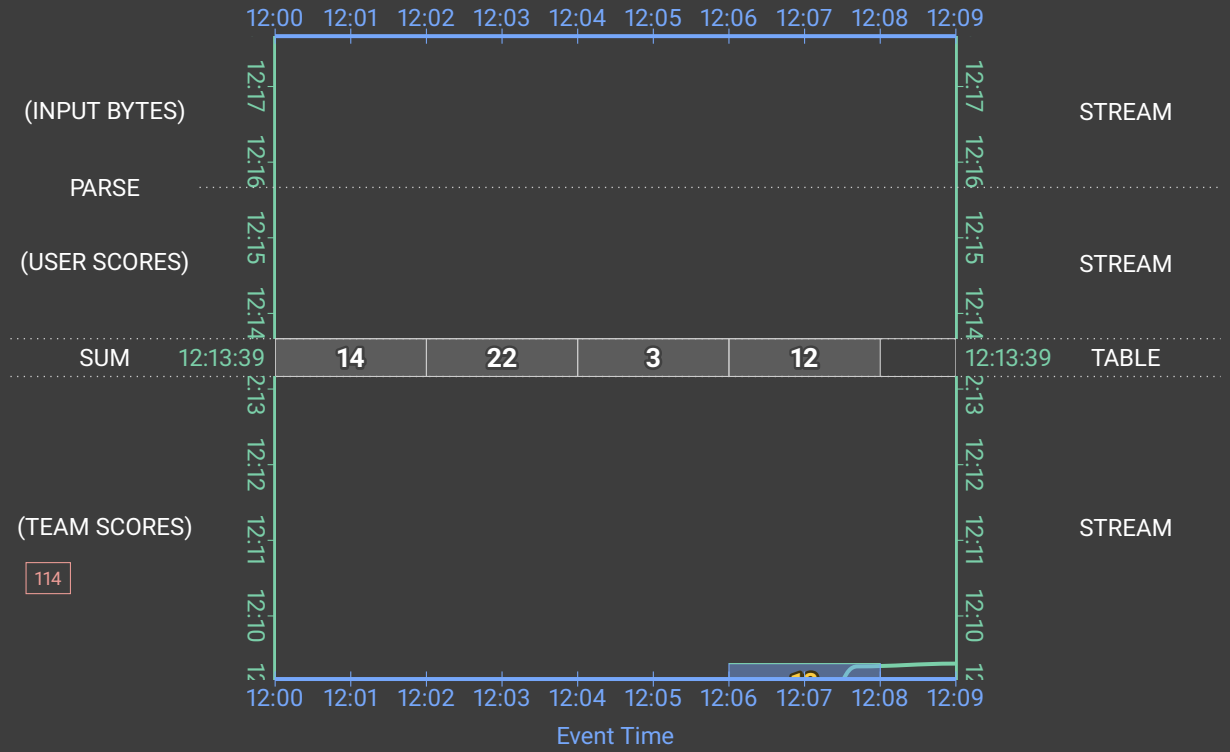

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:06
14
22
3
12
12:13:06
TABLE
(TEAM SCORES)
STREAM
109
12
12
online
12:09 12:10 12:11 12:12 12:13 12:14 12:15 12:16 12:17
Event Time

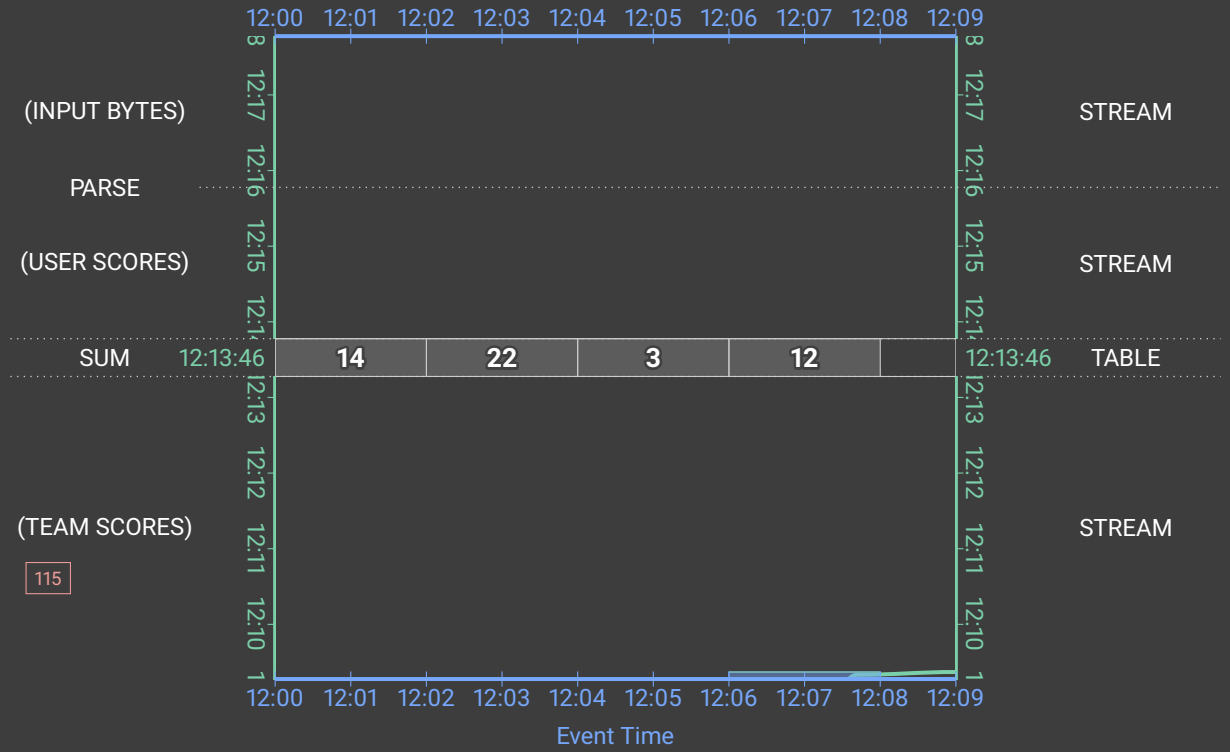

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:13
14
22
3
12
12:13:13
TABLE
(TEAM SCORES)
STREAM
110
12
Event Time

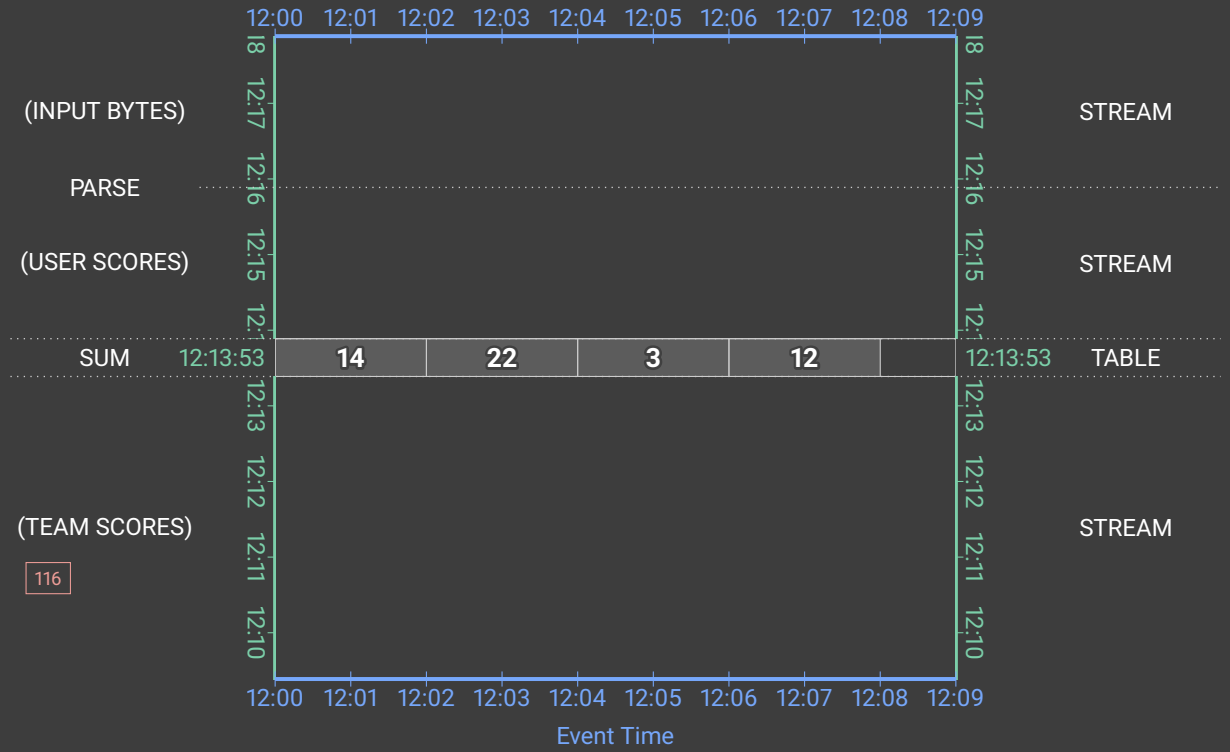

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:19
14
22
3
12
12:13:19
TABLE
(TEAM SCORES)
STREAM
111
12
Event Time

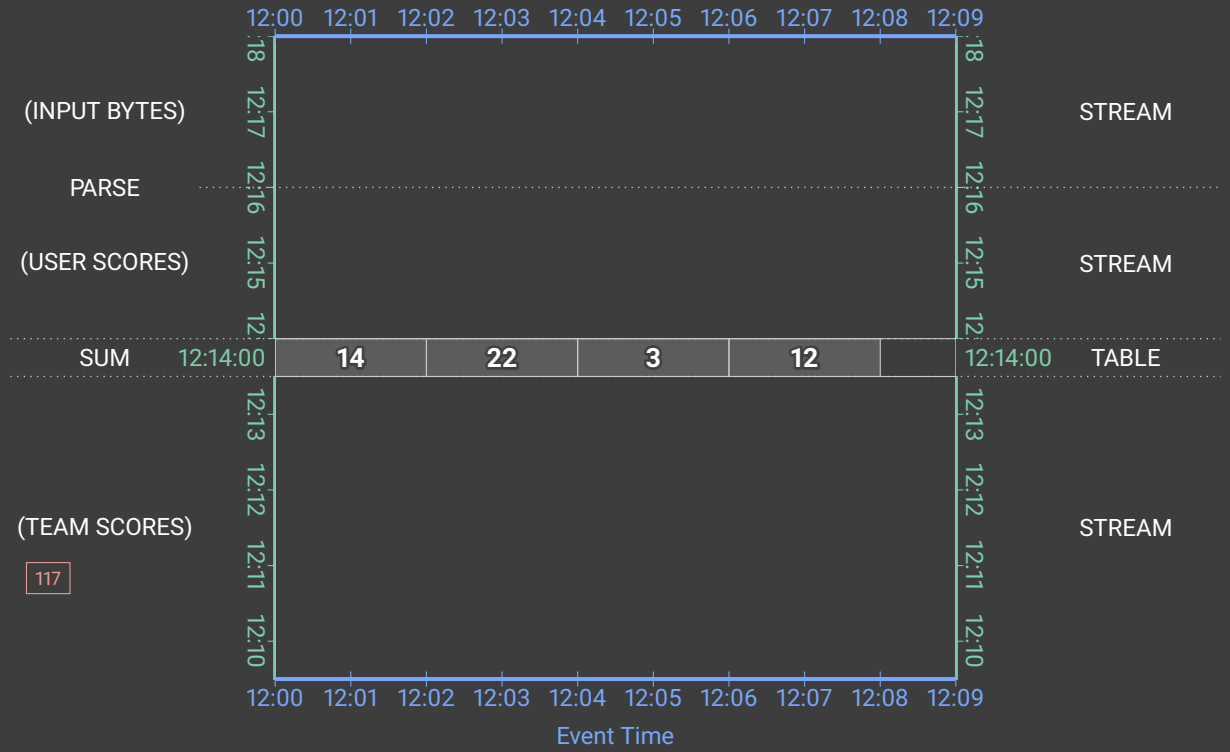

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:26
14
22
3
12
12:13:26
TABLE
(TEAM SCORES)
STREAM
112
12
Event Time

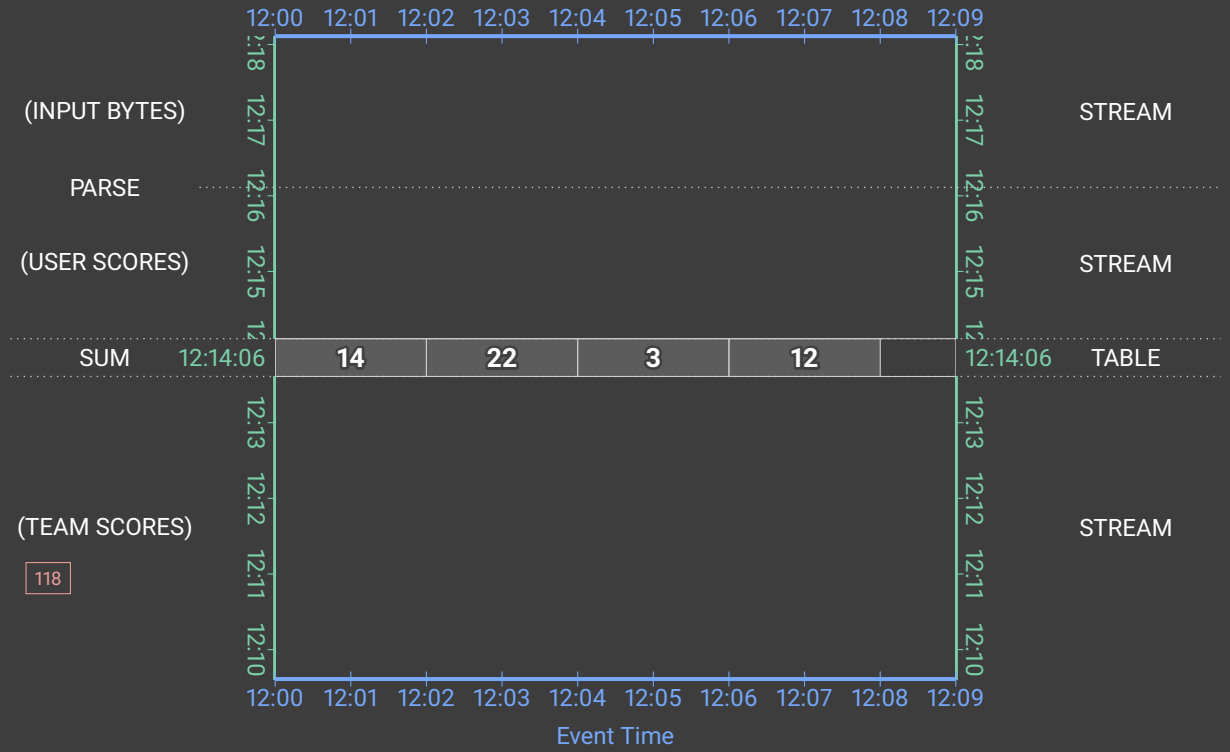

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:33
14
22
3
12
12:13:33
TABLE
(TEAM SCORES)
STREAM
113
12
Event Time

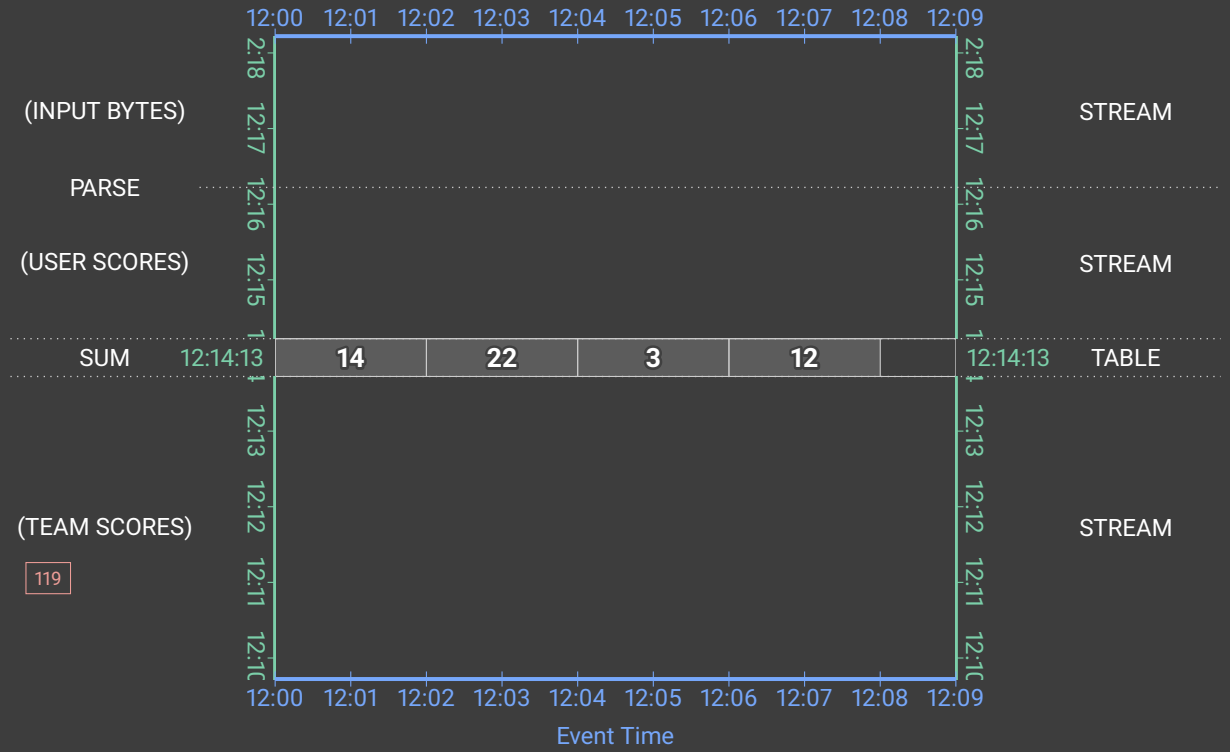

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:39
14
22
3
12
12:13:39
TABLE
(TEAM SCORES)
STREAM
114
12:17 12:16 12:15 12:14 12:13 12:12 12:11 12:10
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time

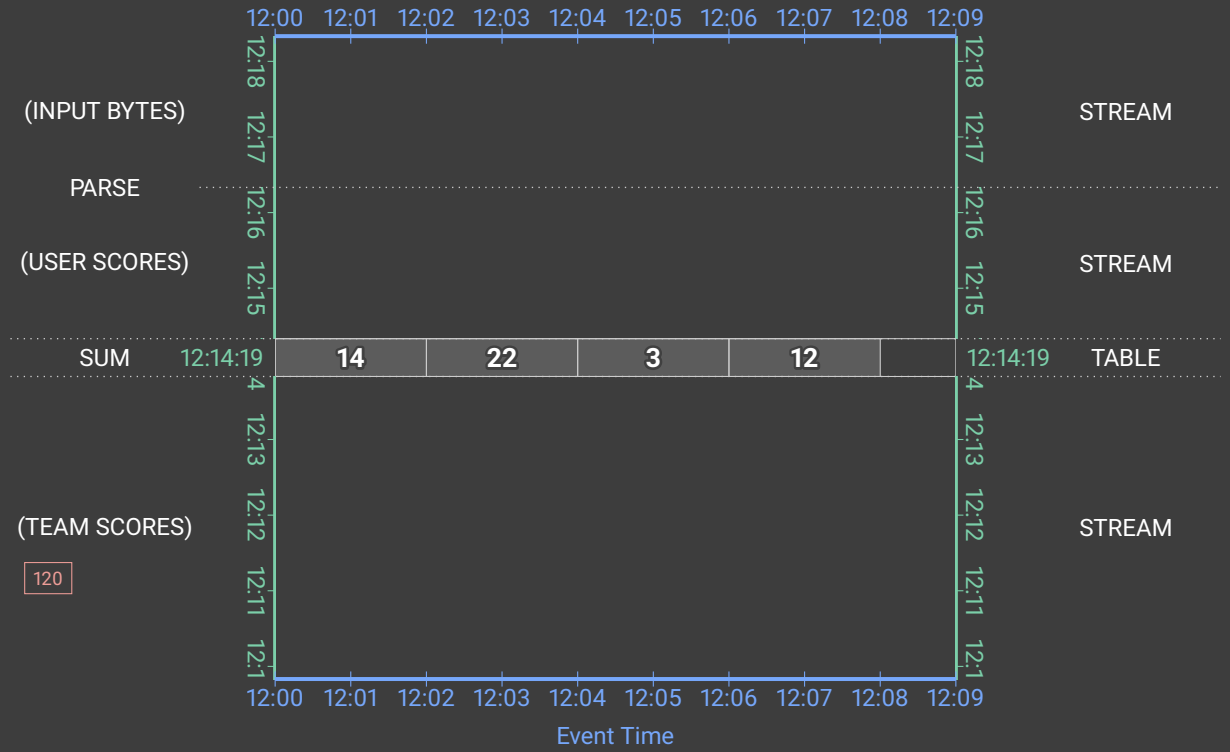

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:46
14
22
3
12
12:13:46
TABLE
(TEAM SCORES)
STREAM
115
Event Time

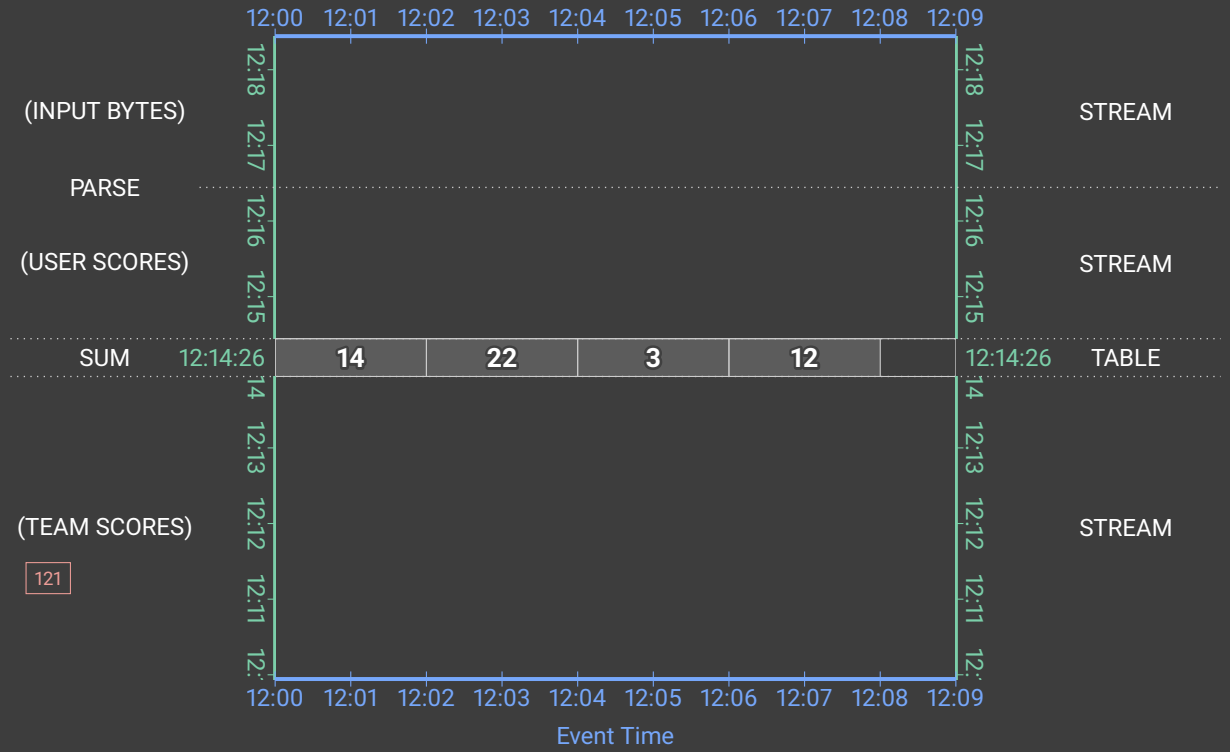

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:13:53
14
22
3
12
12:13:53
TABLE
(TEAM SCORES)
STREAM
12:18 12:17 12:16 12:15 12:14 12:13 12:12 12:11 12:10
Event Time

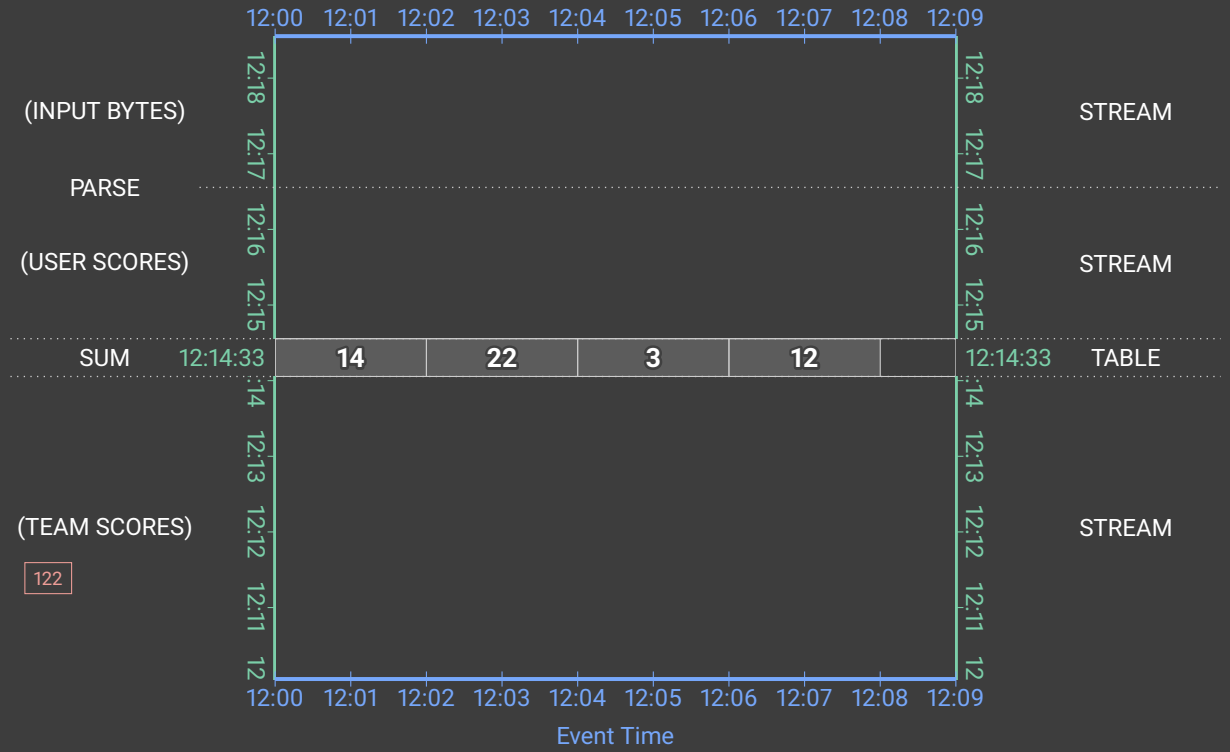

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:14:00
14
22
3
12
12:14:00
TABLE
(TEAM SCORES)
STREAM
117
12:18 12:17 12:16 12:15 12:14 12:13 12:12 12:11 12:10
Event Time

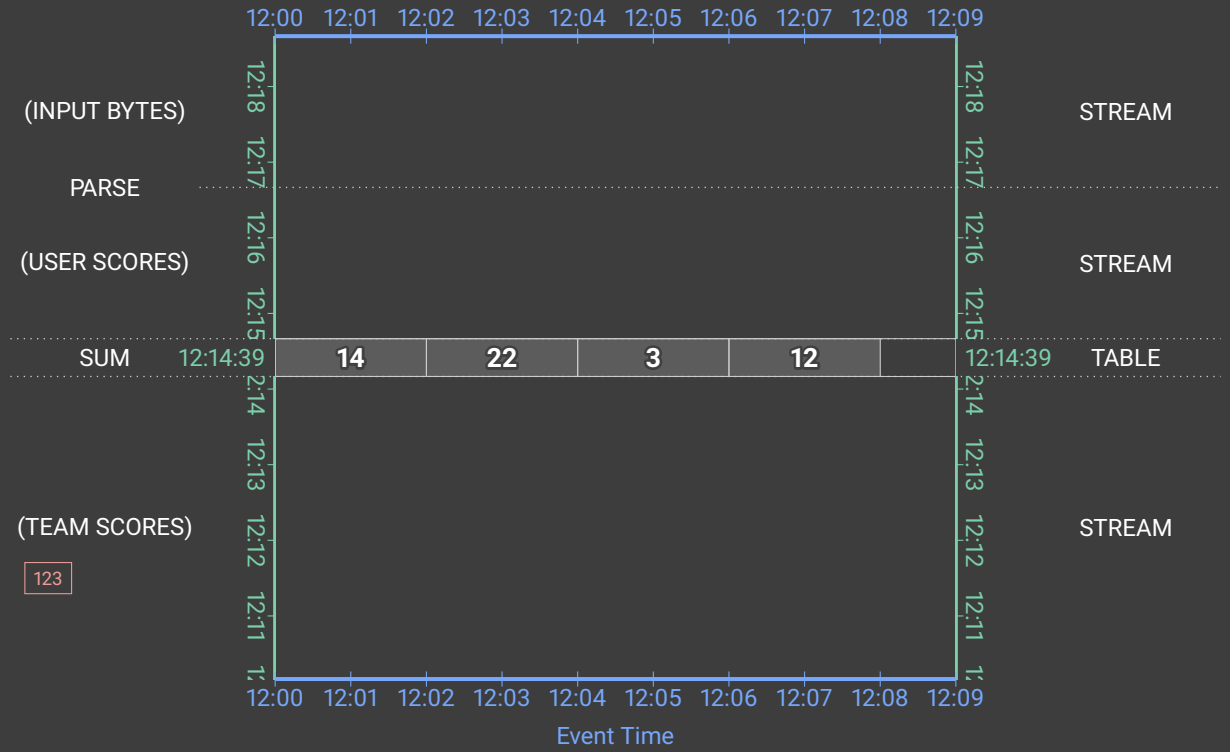

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:14:06
14
22
3
12
12:14:06
TABLE
(TEAM SCORES)
STREAM
12:18 12:17 12:16 12:15 12:13 12:12 12:11 12:10
Event Time

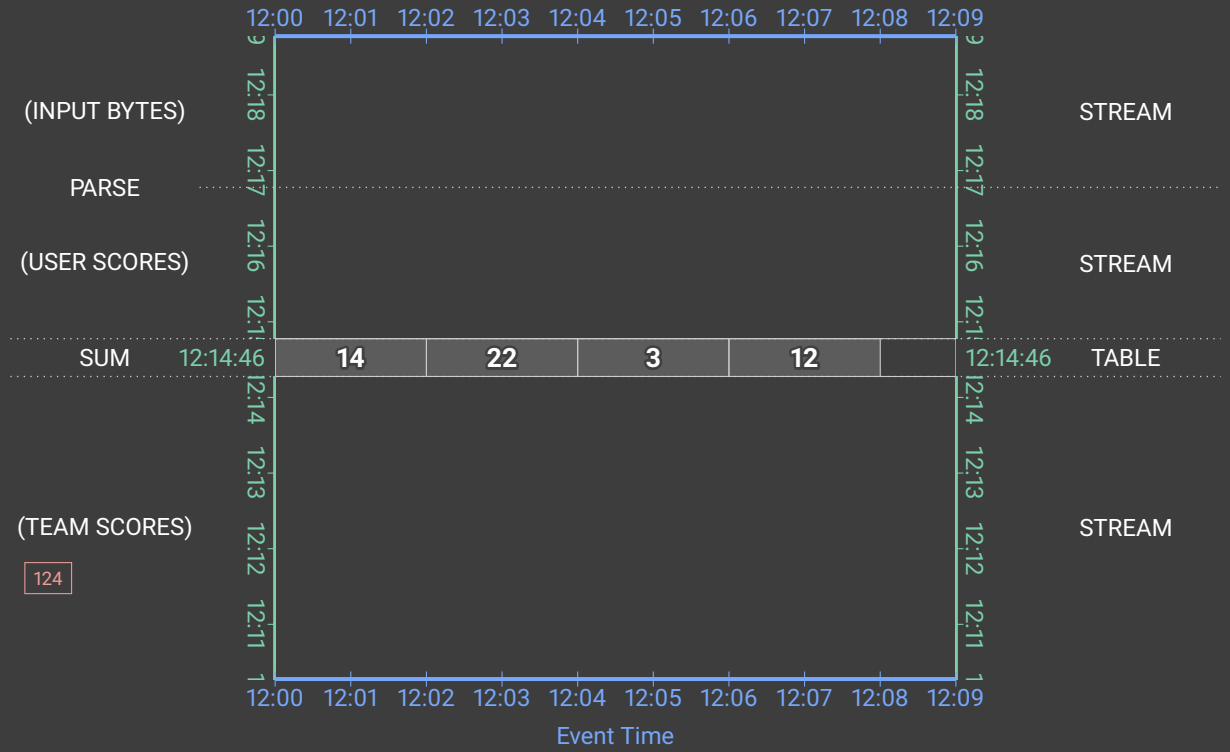

12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:14:13
14
22
3
12
12:14:13
TABLE
(TEAM SCORES)
STREAM
12:18 12:17 12:16 12:15 12:14 12:13 12:12 12:11 12:10
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:14:19
14
22
3
12
12:14:19
TABLE
(TEAM SCORES)
STREAM
120
12:18 12:17 12:16 12:15
12:14 12:13 12:12 12:11 12:1
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:14:26
14
22
3
12
12:14:26
TABLE
(TEAM SCORES)
STREAM
121
12:18 12:17 12:16 12:15
14 12:13 12:12 12:11
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:14:33
14
22
3
12
12:14:33
TABLE
(TEAM SCORES)
STREAM
122
12:18 12:17 12:16 12:15
12:14 12:13 12:12 12:11 12
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:14:39
14
22
3
12
12:14:39
TABLE
(TEAM SCORES)
STREAM
123
12:18 12:17 12:16 12:15 12:14 12:13 12:12 12:11
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time


12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
(INPUT BYTES)
STREAM
PARSE
(USER SCORES)
STREAM
SUM
12:14:46
14
22
3
12
12:14:46
TABLE
(TEAM SCORES)
STREAM
124
12:00 12:01 12:02 12:03 12:04 12:05 12:06 12:07 12:08 12:09
Event Time