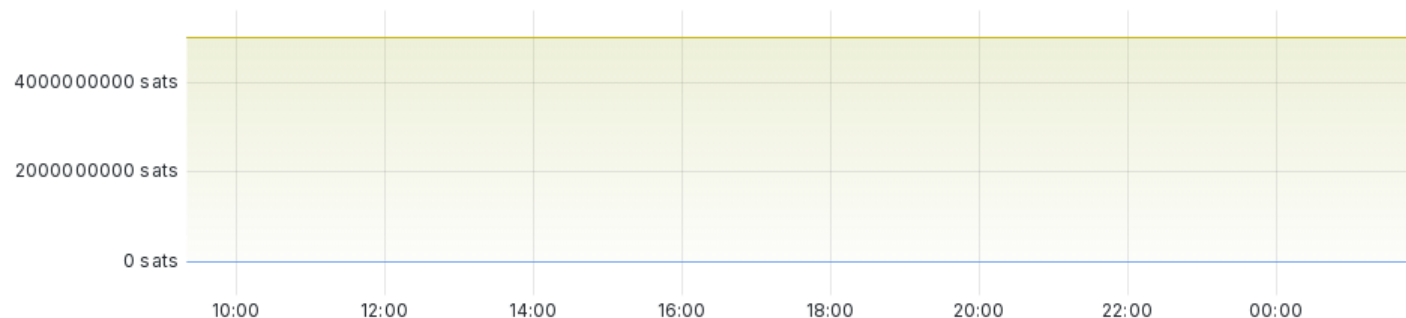# SRI benchmarking tool

Benchmarking tool to measure Stratum V2 and Stratum (V1) protocol performances in different contexts

Tue Jul 30 09:20:00 UTC 2024
to
Wed Jul 31 01:50:00 UTC 2024

SV1 shares

Name	Last *
Submitted shares	12036
Valid shares	11959
Stale shares	77
Acceptance rate %	99.4%

SV1 mined b...

0

SV2 shares

Name	Last *
Submitted shares	5696
Valid shares	5692
Stale shares	4
Acceptance rate %	99.9%

SV2 mined ...

0

SV1 – block templates value

Name	Last *
SV1 - block template value	5000002000 sats

SV2 – block templates value

Name	Last *
SV2 - block template value	5000002000 sats

SV1 vs SV2 – block template value

Name		Mean	Last *
■ SV1 – block template value		5000003602 sats	5000002000 sats
■ SV2 – block template value		5000003633 sats	5000002000 sats
■ SV2 delta		30.5 sats	0 sats

## SV2 – block template value – comparison with mined blocks on the network
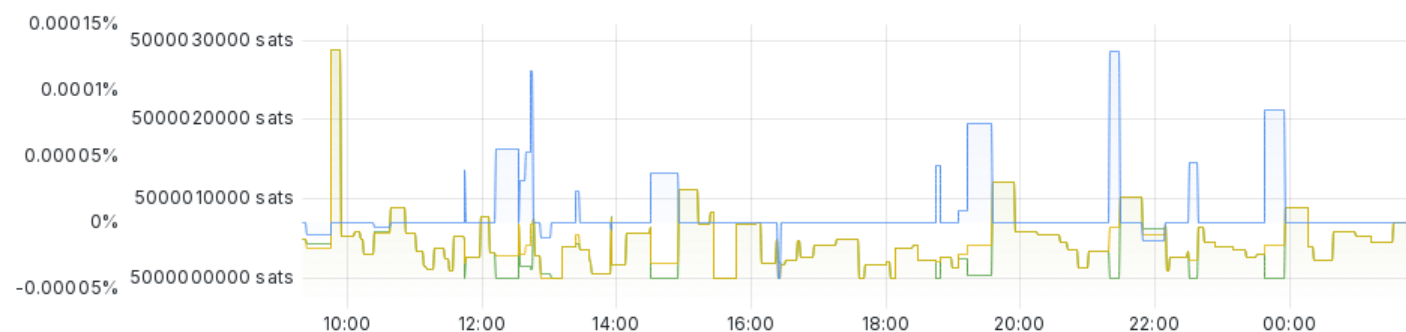
Name		Mean	Last *
■ Network – block template value		5000004203 sats	5000001748 sats
■ SV2 – block template value		5000004565 sats	5000001748 sats
■ SV2 delta %		0.00000723%	0%

Average latency with major pools (RTT)
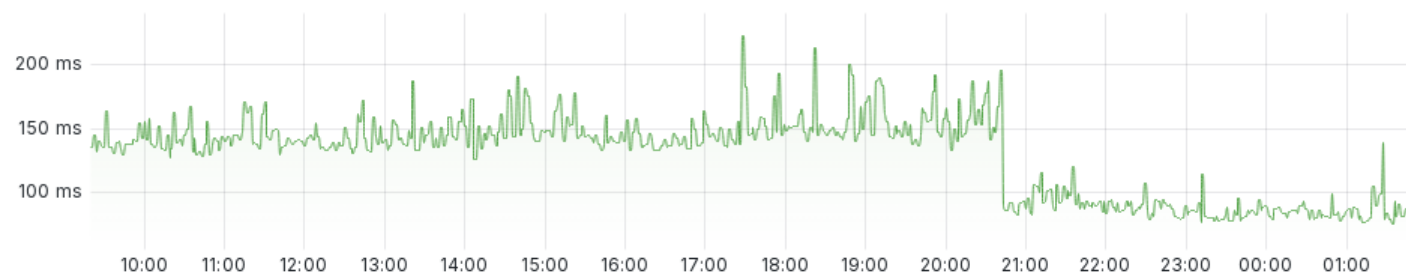
Name		Mean	Last *
■ Average latency with major pools (RTT)		129 ms	82.3 ms

SV1 – time to get a new job from Pool
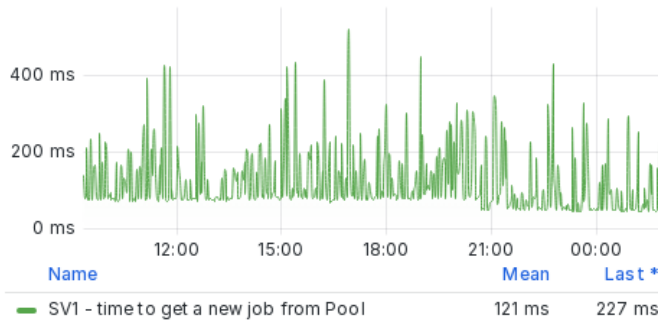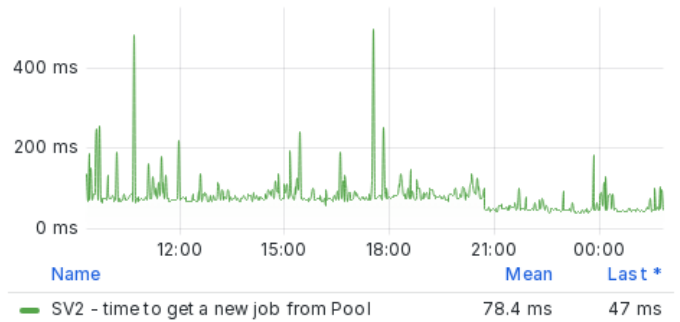
Name	Mean	Last *
━ SV1 – time to get a new job from Pool	121 ms	227 ms

SV2 – time to get a new job from Pool

Name	Mean	Last *
━ SV2 – time to get a new job from Pool	78.4 ms	47 ms

SV1 – time to get a new job (after a new block found) from Pool
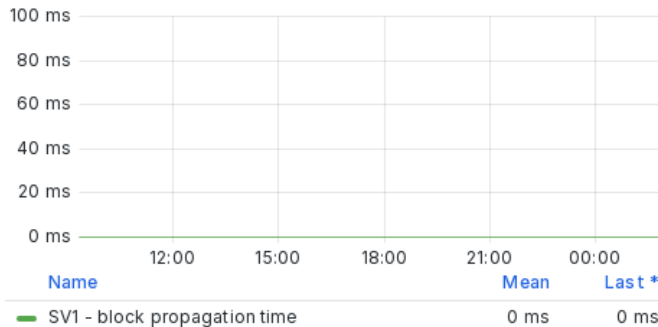
Name		Mea
━ SV1 – time to get a new job (after a new block found) from Pool		144 m

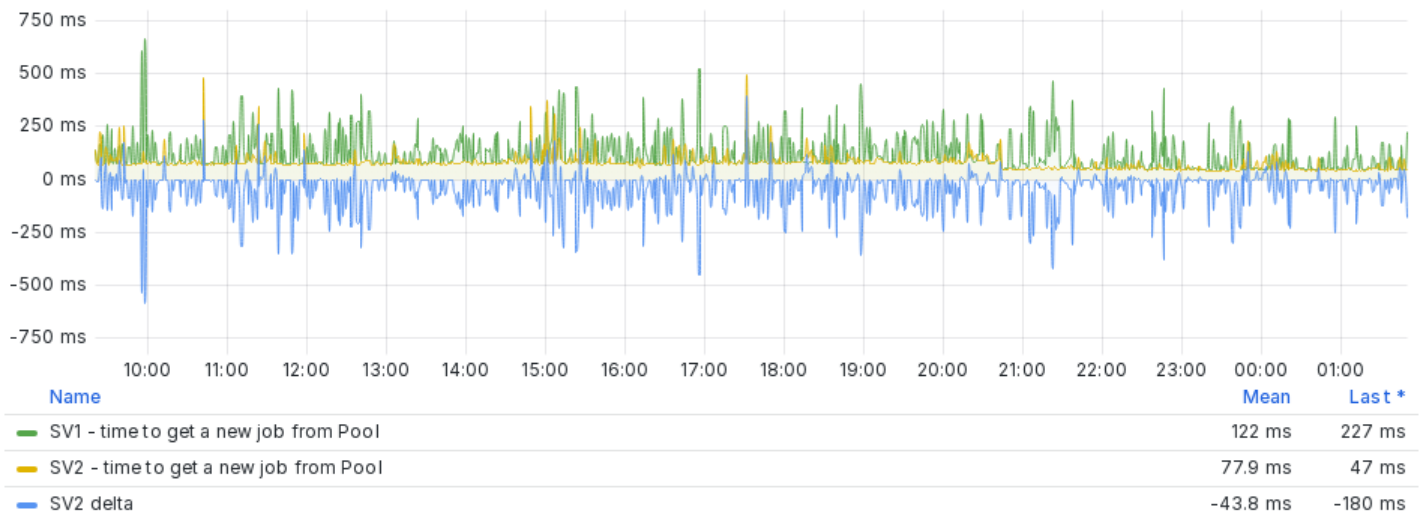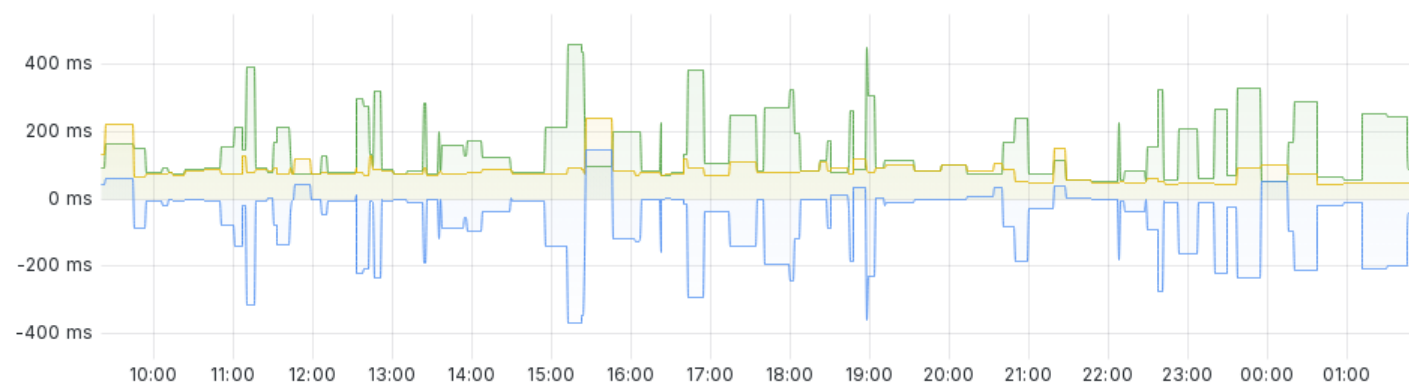## SV2 – time to get a new job (after a new block found) from Pool

Name		Mea
━ SV2 – time to get a new job (after a new block found) from Pool		82.7 m

SV1 – block propagation time

Name	Mean	Last *
━ SV1 – block propagation time	0 ms	0 ms

SV2 – block propagation time

Name	Mean	Last *
━ SV2 – block propagation time	0 ms	0 ms

SV1 vs SV2 – time to get a new job from Pool

Name	Mean	Last *
━ SV1 – time to get a new job from Pool	122 ms	227 ms
━ SV2 – time to get a new job from Pool	77.9 ms	47 ms
━ SV2 delta	-43.8 ms	-180 ms

3
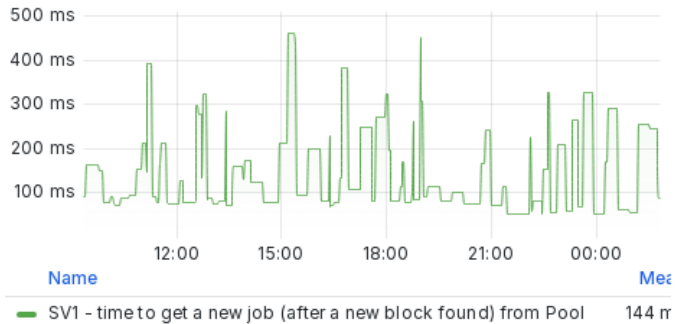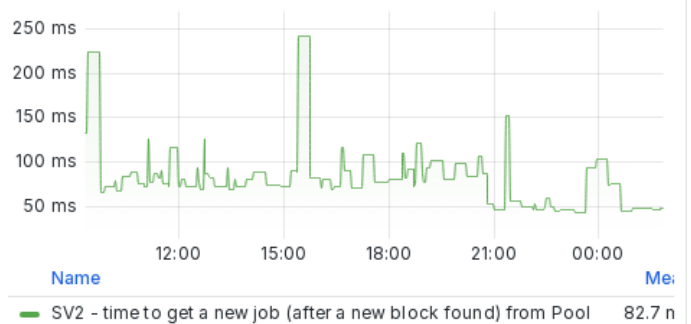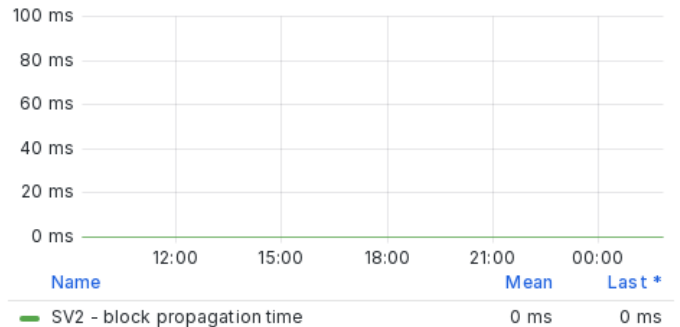
SV1 vs SV2 – time to get a new job (after a new block found) from Pool
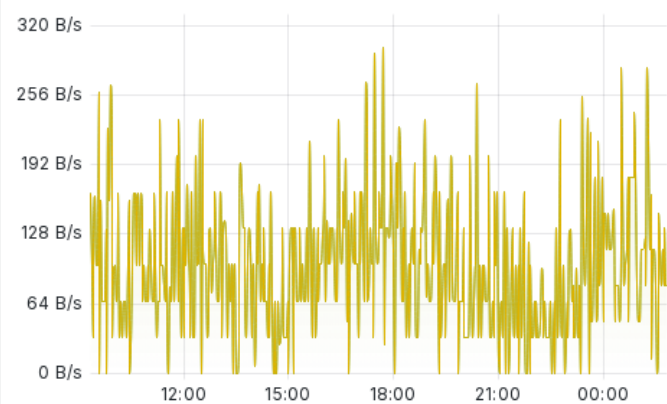

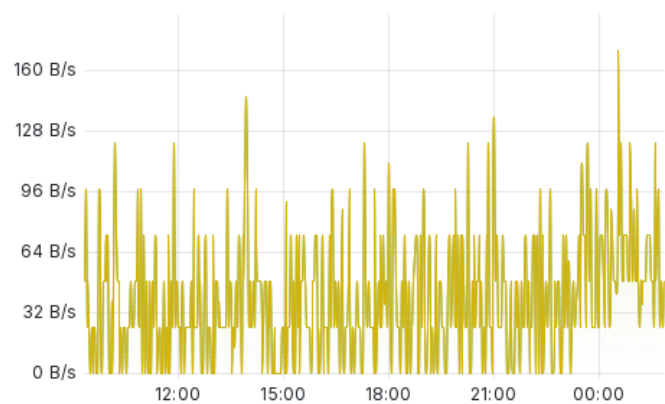| Name	Mean	Last *
▬ SV1 – time to get a new job (after a new block found) from Pool	144 ms	89 ms
▬ SV2 – time to get a new job (after a new block found) from Pool	82.8 ms	47 ms
▬ SV2 delta	-61.0 ms	-42 ms

SV1 vs SV2 – block propagation time

Name	Mean	Last *
▬ SV1 – block propagation time	0 ms	0 ms
▬ SV2 – block propagation time	0 ms	0 ms
▬ SV2 delta	0 ms	0 ms

SV1 – Network Tx (farm level)

Name	Mean	Last *
▬ Mining Farm Network Interface	99.1 B/s	80.5 B/s
▬ Total (farm level)	99.1 B/s	80.5 B/s

SV2 – Network Tx (farm level)

Name	Mean	Last *
▬ Translator	39.6 B/s	48.7 B/s
▬ Total (farm level)	39.6 B/s	48.7 B/s

SV1 – Network Rx (farm level)
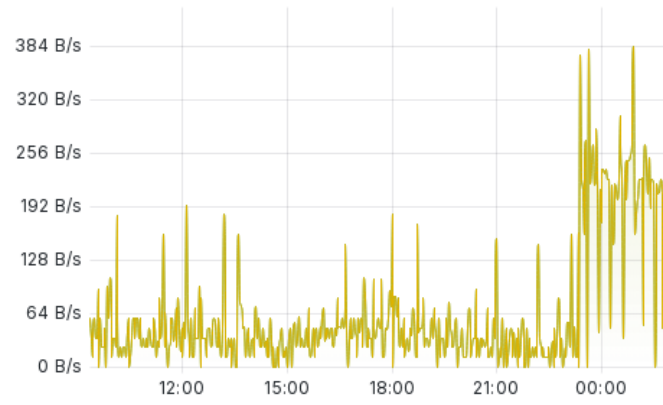
Name	Mean	Last *
— Mining Farm Network Interface	64.7 B/s	209 B/s
— Total (farm level)	64.7 B/s	209 B/s

SV2 – Network Rx (farm level)
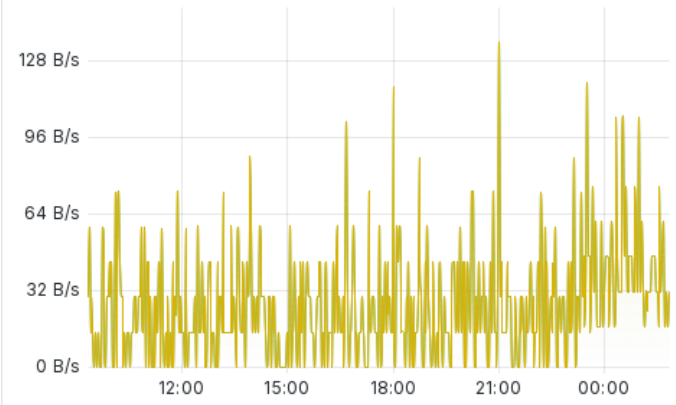
Name	Mean	Last *
— Translator	25.8 B/s	31.5 B/s
— Total (farm level)	25.8 B/s	31.5 B/s

SV1 vs SV2 – Network Tx (farm level)
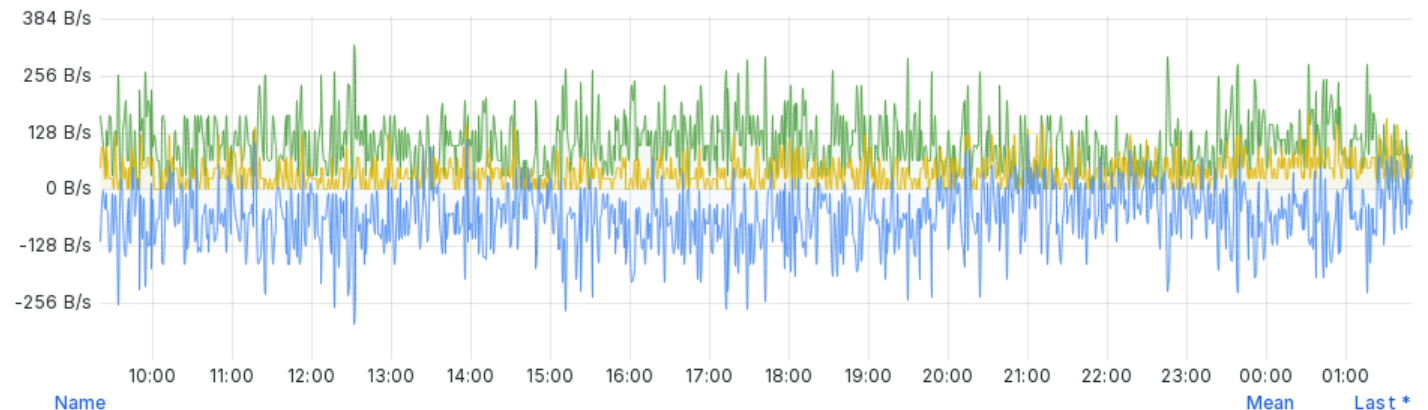
Name	Mean	Last *
— SV1 (farm net interface)	101 B/s	80.5 B/s
— SV2 (translator)	40.1 B/s	48.7 B/s
— SV2 delta	-60.9 B/s	-31.9 B/s

SV1 vs SV2 – Network Rx (farm level)
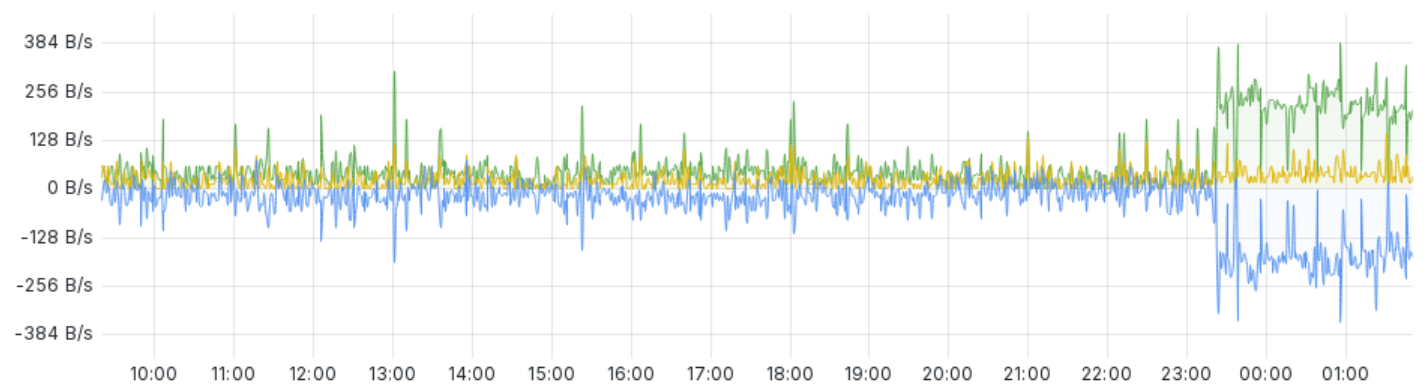
Name	Mean	Last *
— SV1 (farm net interface)	66.6 B/s	209 B/s
— SV2 (translator)	26.0 B/s	31.5 B/s
— SV2 delta	-40.6 B/s	-177 B/s

SV1 - Network Tx (pool level)
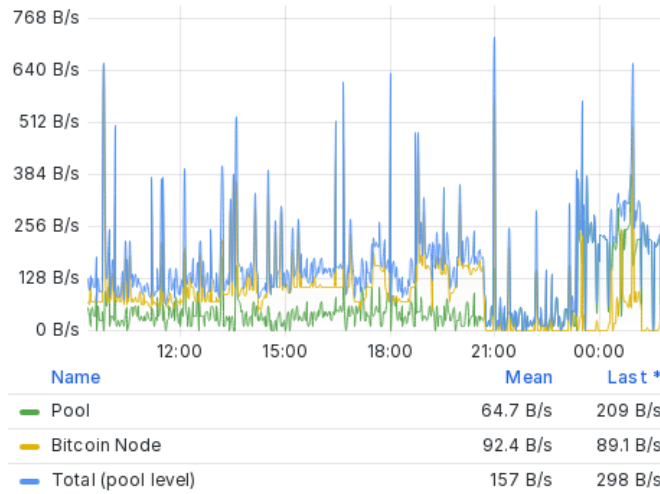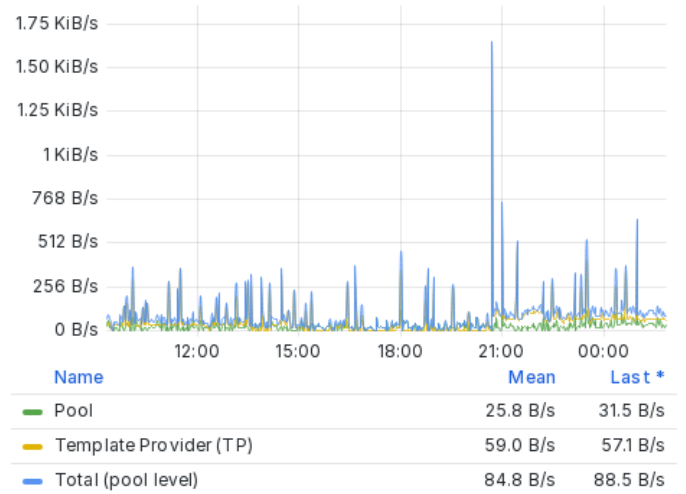
Name		Mean	Last *
● Pool		64.7 B/s	209 B/s
● Bitcoin Node		92.4 B/s	89.1 B/s
● Total (pool level)		157 B/s	298 B/s

SV2 - Network Tx (pool level)

Name		Mean	Last *
● Pool		25.8 B/s	31.5 B/s
● Template Provider (TP)		59.0 B/s	57.1 B/s
● Total (pool level)		84.8 B/s	88.5 B/s

SV1 - Network Rx (pool level)

Name		Mean	Last *
● Pool		99.1 B/s	80.5 B/s
● Bitcoin Node		103 B/s	64.0 B/s
● Total (pool level)		203 B/s	145 B/s

SV2 - Network Rx (pool level)

Name		Mean	Last *
● Pool		39.6 B/s	48.7 B/s
● Template Provider (TP)		74.1 B/s	64.0 B/s
● Total (pool level)		114 B/s	113 B/s

SV1 vs SV2 - Network Tx (pool level)

Name		Mean	Last *
● SV1 (pool + bitcoin node)		126 B/s	298 B/s
● SV2 (pool + tp)		74.0 B/s	88.5 B/s
● SV2 delta		-52.1 B/s	-209 B/s
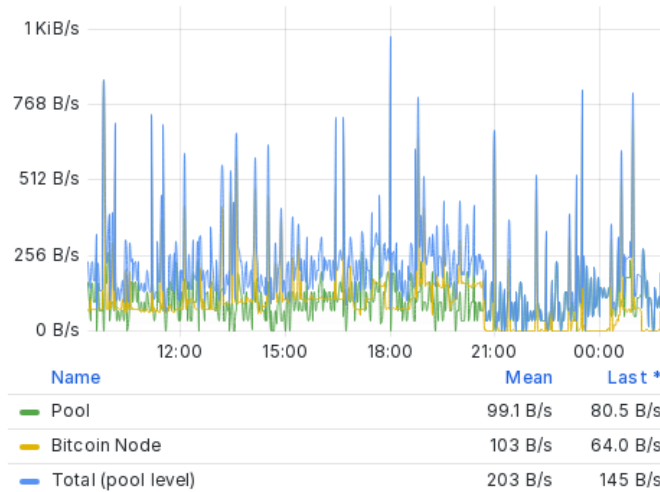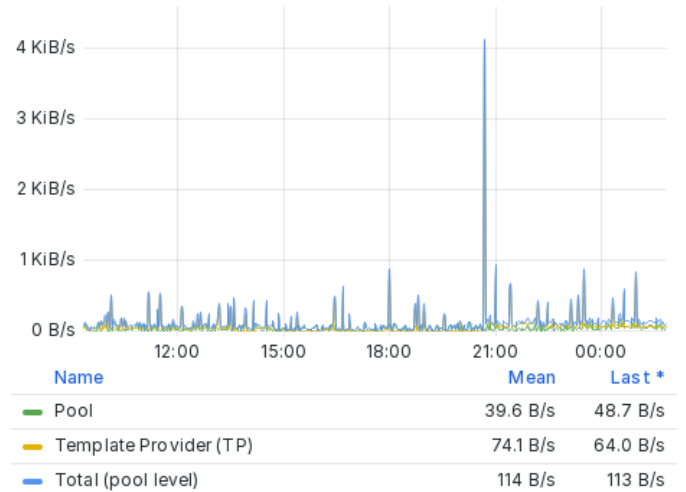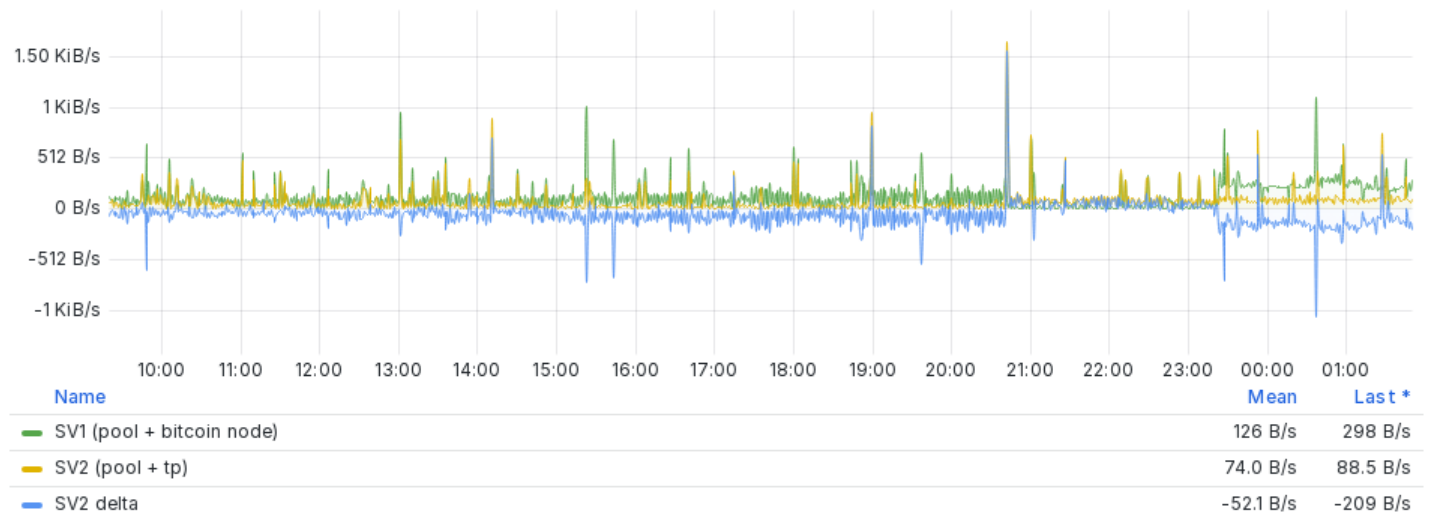
SV1 vs SV2 - Network Rx (pool level)
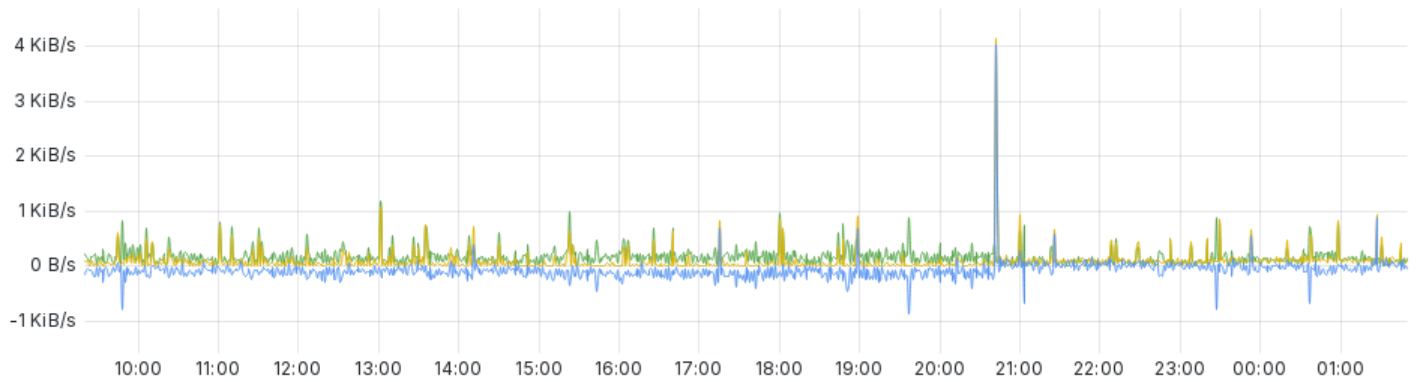
Name		Mean	Last *
● SV1 (pool + bitcoin node)		170 B/s	145 B/s
● SV2 (pool + tp)		100 B/s	113 B/s
● SV2 delta		-69.6 B/s	-31.9 B/s

Pool Roles (SV1) - CPU Usage
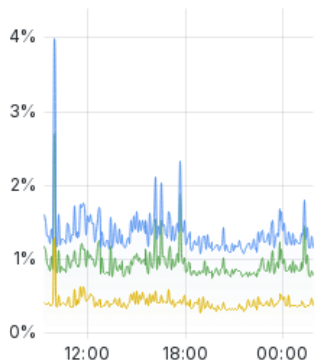
Name	Mean
● sv1-pool	0.937%
● sv1-node-pool-side	0.409%
● Total	1.35%

Pool Roles (SV1) - Memory U...
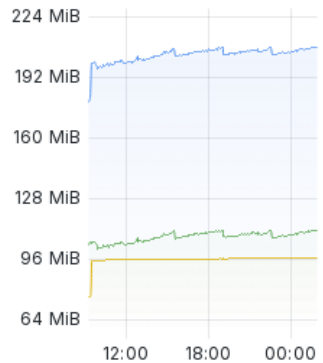
Name	Mean
● sv1-pool	108 MiB
● sv1-node-pool-side	96.2 MiB
● Total	204 MiB

Pool Roles (SV1) - Network Tx
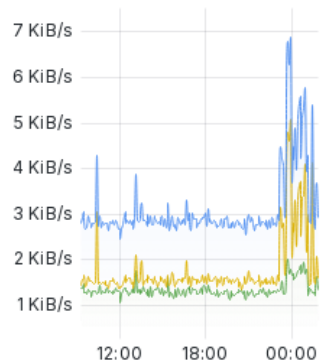
Name	Mean
● sv1-pool	1.34 KiB/s
● sv1-node-pool-side	1.76 KiB/s
● Total	3.10 KiB/s

Pool Roles (SV1) - Network Rx
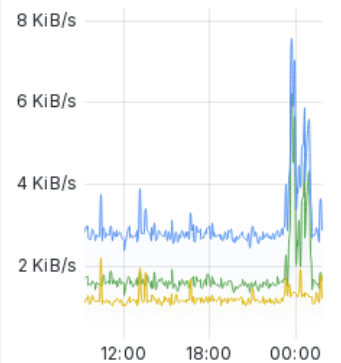
Name	Mean
● sv1-pool	1.80 KiB/
● sv1-node-pool-side	1.22 KiB/
● Total	3.02 KiB/

Pool Roles (SV2) - CPU Usage
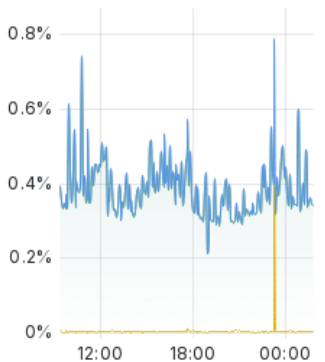
Name	Mean
● sv2-tp-pool-side	0.381%
● sv2-pool	0.00540%
● Total	0.386%

Pool Roles (SV2) - Memory U...
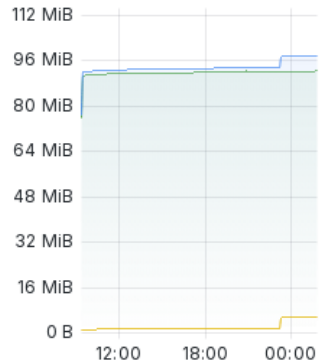
Name	Mean
● sv2-tp-pool-side	91.7 MiB
● sv2-pool	2.04 MiB
● Total	93.8 MiB

Pool Roles (SV2) - Network Tx
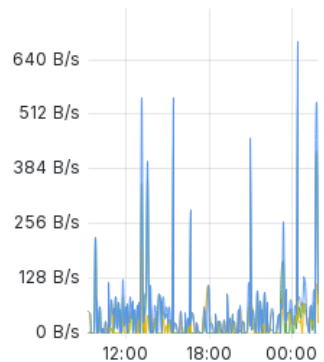
Name	Mean
● sv2-tp-pool-side	36.7 B/s
● sv2-pool	19.6 B/s
● Total	52.8 B/s

Pool Roles (SV2) - Network Rx
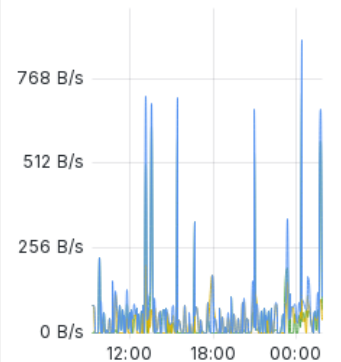
Name	Mean
● sv2-tp-pool-side	41.1 B/s
● sv2-pool	30.0 B/s
● Total	66.5 B/s

Miner Roles (SV2) – CPU Usa...

Name	Mean	
▬ sv2-translator	0.468%	0
▬ Total	0.468%	0

Miner Roles (SV2) – Memory ...

Name	Mean	
▬ sv2-translator	2.56 MiB	2.5
▬ Total	2.56 MiB	2.5

Miner Roles (SV2) – Network ...

Name	Mean	
▬ sv2-translator	163 B/s	1
▬ Total	163 B/s	1

Miner Roles (SV2) – Network ...

Name	Mean	
▬ sv2-translator	212 B/s	2
▬ Total	212 B/s	2
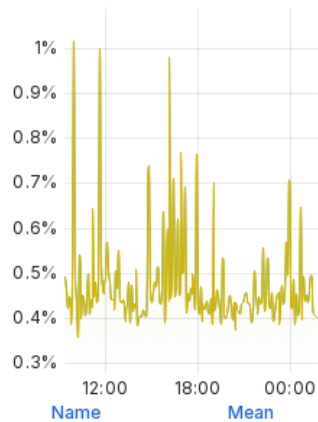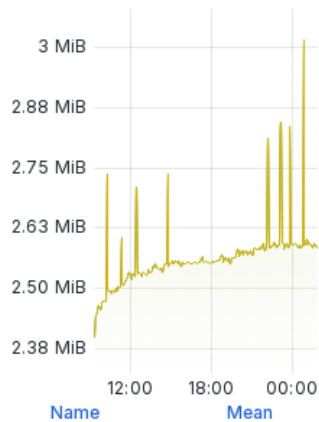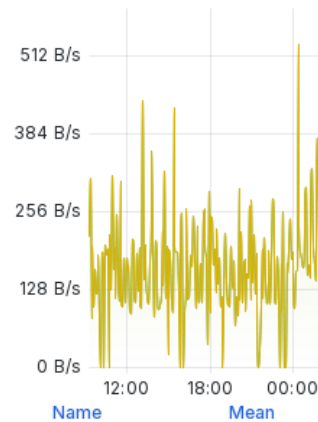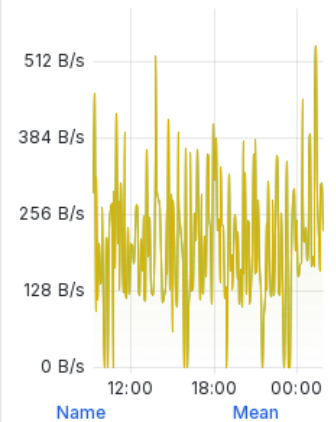
Uptime
16.7 hours

CPU Cores
4

CPU usage
12.83%

Host Memory
8.34 GB

Memory usa...
20.6%

Filesystem ...
0.57%

Node Mermory
- ▬ Used Memory
- ▬ Available Memory