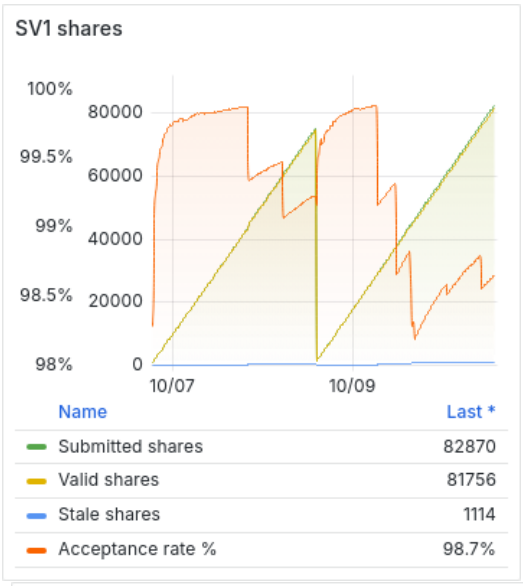
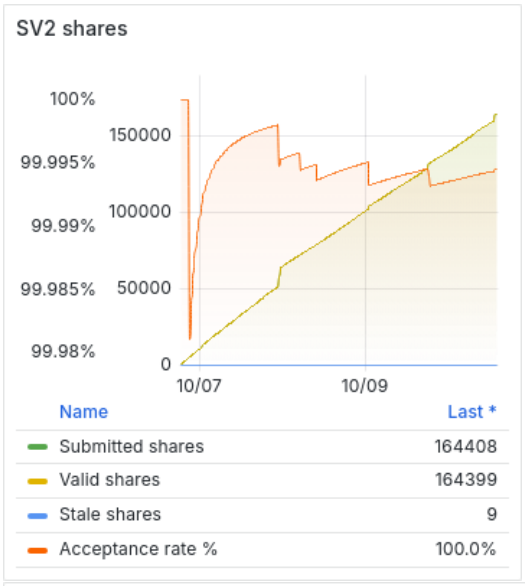
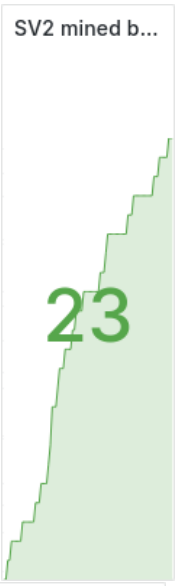
SRI benchmarking tool

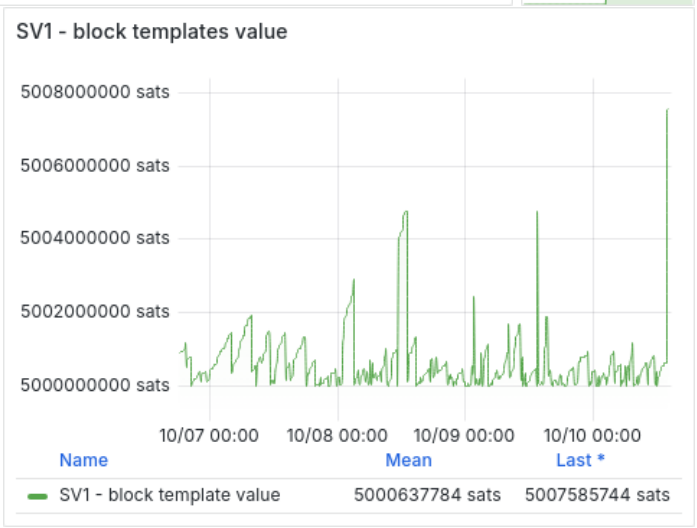
Benchmarking tool to measure Stratum V2 and Stratum (V1) protocol performances in different contexts

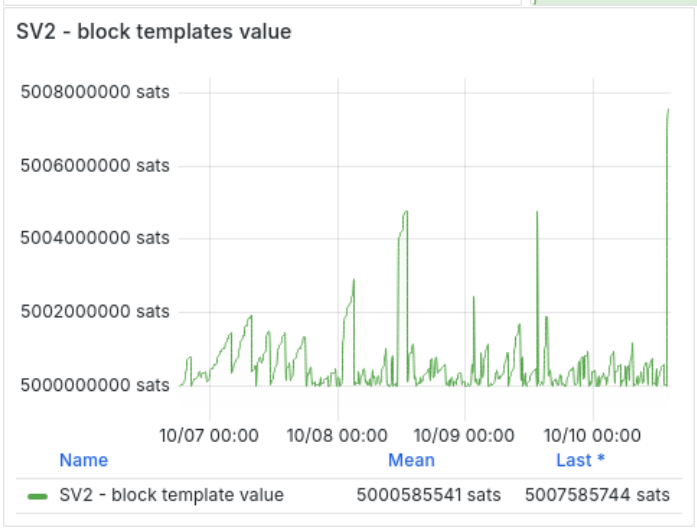
Mon Oct 6 18:06:22 UTC 2025
to
Fri Oct 10 14:35:31 UTC 2025



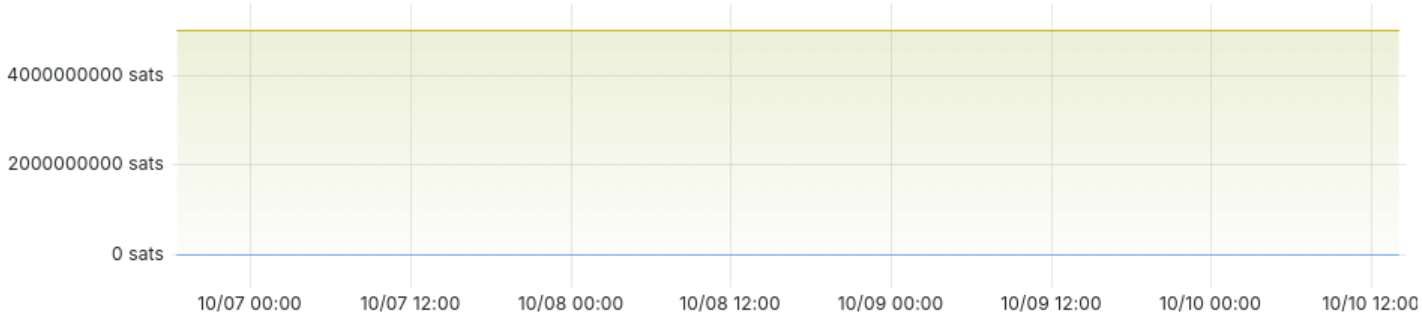






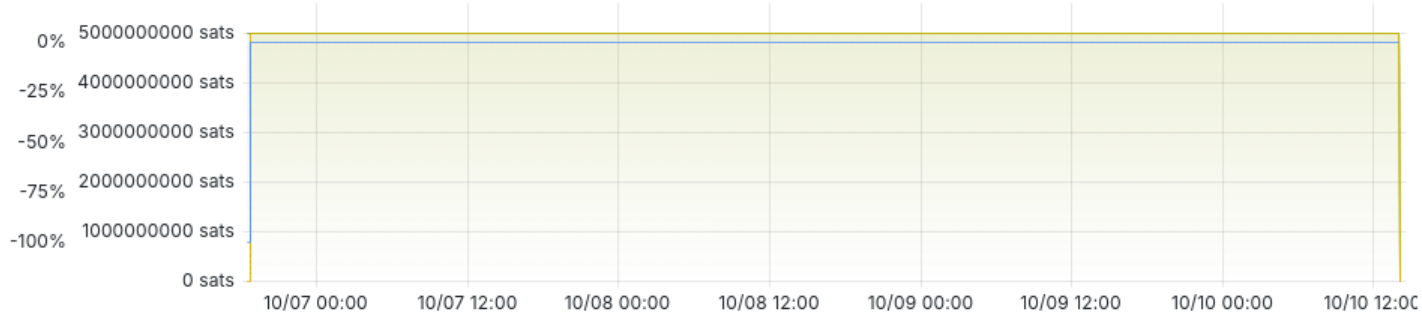


SV1 vs SV2 - block templates value



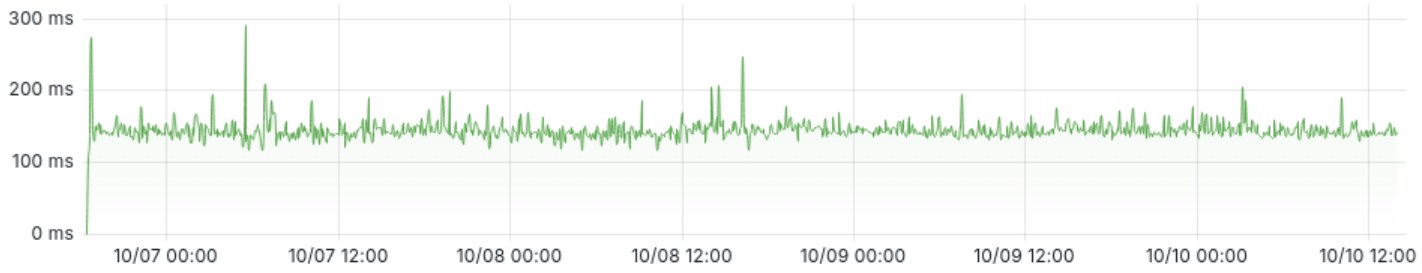
Name	Mean	Last *
SV1 - block template value	5000635705 sats	5007585744 sats
SV2 - block template value	4996038045 sats	0 sats
SV2 delta	-51343 sats	0 sats

SV2 - block templates value - comparison with mined blocks on the network



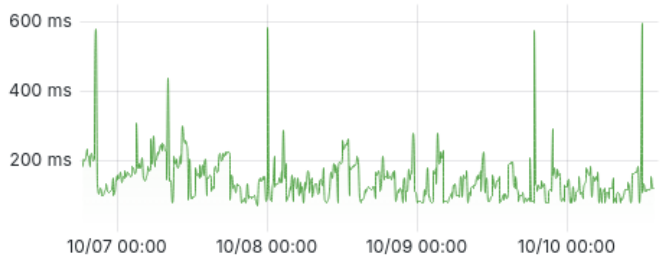
Name	Mean	Last *
Network - block template value	4995488241 sats	0 sats
SV2 - block template value	4982391832 sats	0 sats
SV2 delta %	-0.262%	0.138%

Average latency with major pools (RTT)



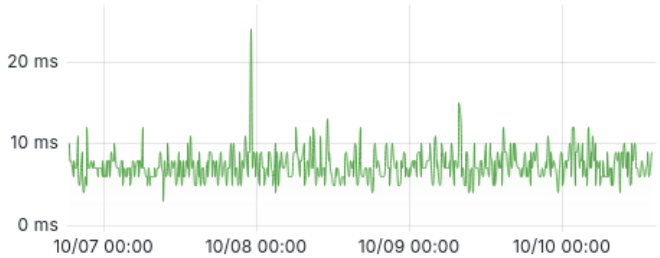
Name	Mean	Last *
Average latency with major pools (RTT)	145 ms	140 ms

SV1 - time to get a new job from Pool



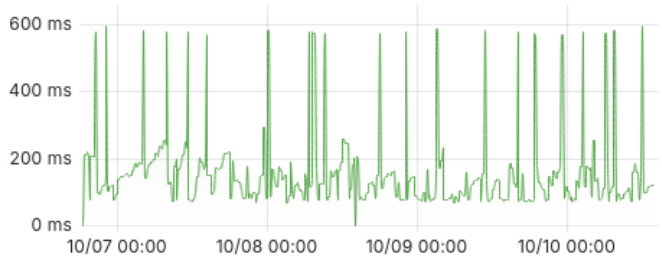
Name	Mean	Last *
SV1 - time to get a new job from Pool	142 ms	128 ms

SV2 - time to get a new job from JDC



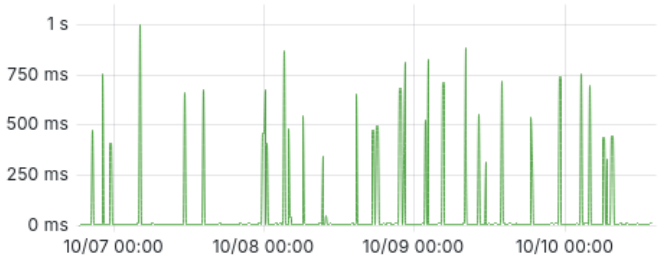
Name	Mean	Last *
SV2 - time to get a new job from JDC	7.33 ms	8 ms

SV1 - time to get a new job (after a new block found) from Pool



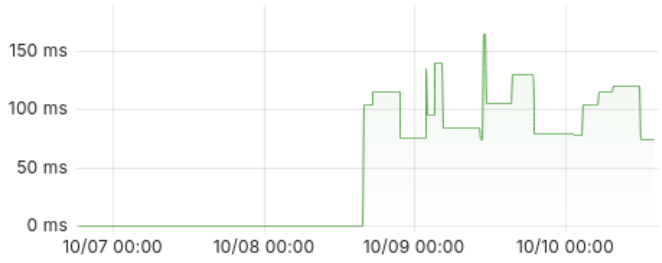
Name	Mean
SV1 - time to get a new job (after a new block found) from Pool	158 ms

SV2 - time to get a new job (after a new block found) from JDC



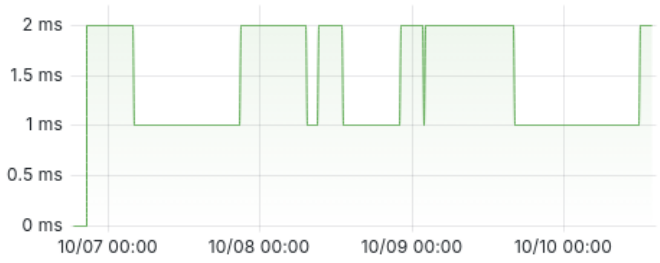
Name	Mean
SV2 - time to get a new job (after a new block found) from JDC	57.3 ms

SV1 block propagation time



Name	Mean	Last *
SV1 block propagation time	50.5 ms	75 ms

SV2 block propagation time

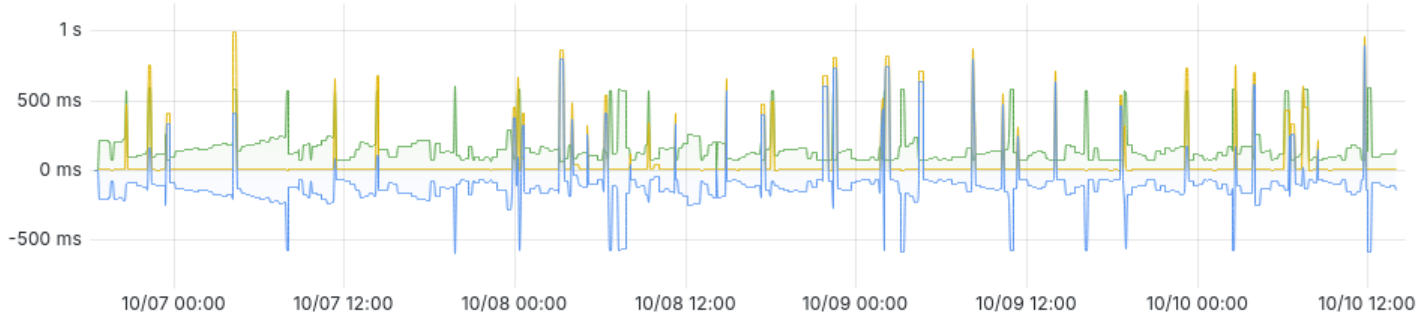


Name	Mean	Last *
SV2 block propagation time	1.43 ms	2 ms

SV1 vs SV2 - time to get a new job from Pool/JDC

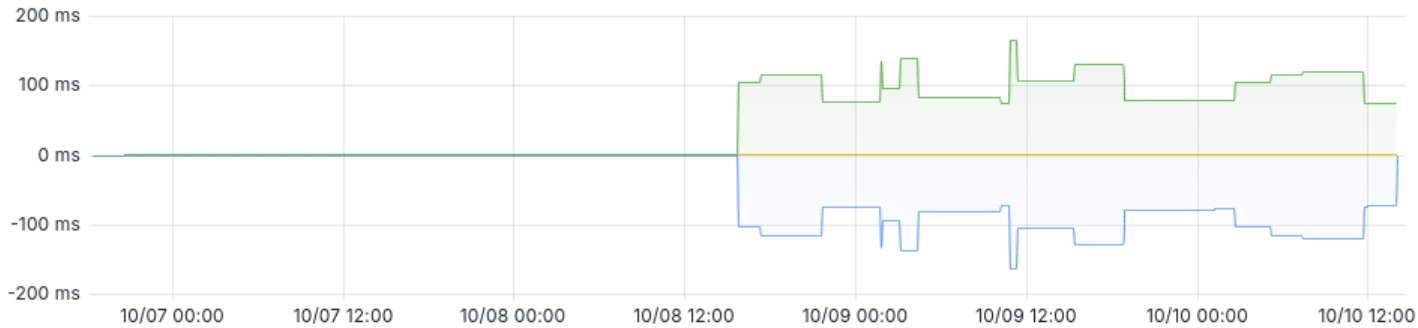
Name	Mean	Last *
SV1 - time to get a new job from Pool	144 ms	128 ms
SV2 - time to get a new job from JDC	7.44 ms	8 ms
SV2 delta	-137 ms	-120 ms

SV1 vs SV2 - time to get a new job (after a new block found) from Pool/JDC



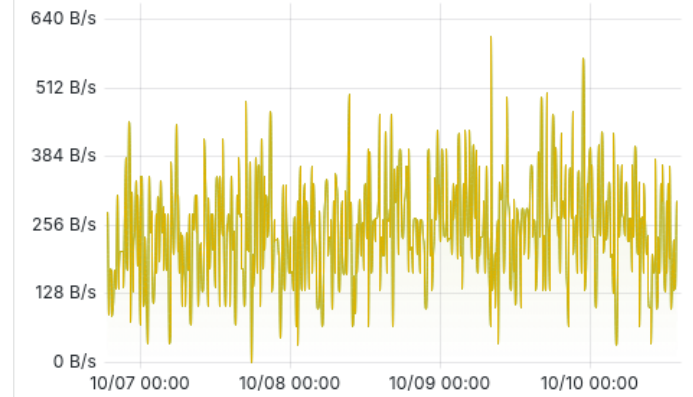
Name	Mean	Last *
SV1 - time to get a new job (after a new block found) from Pool	156 ms	153 ms
SV2 - time to get a new job (after a new block found) from JDC	51.8 ms	9 ms
SV2 delta	-105 ms	-144 ms

SV1 vs SV2 - block propagation time



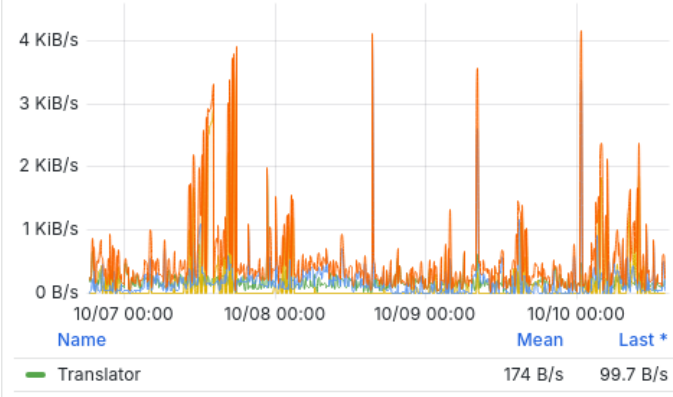
Name	Mean	Last *
SV1 - block propagation time	50.4 ms	75 ms
SV2 - block propagation time	1.43 ms	0 ms
SV2 delta	-49.0 ms	0 ms

SV1 - Network Tx (farm level)



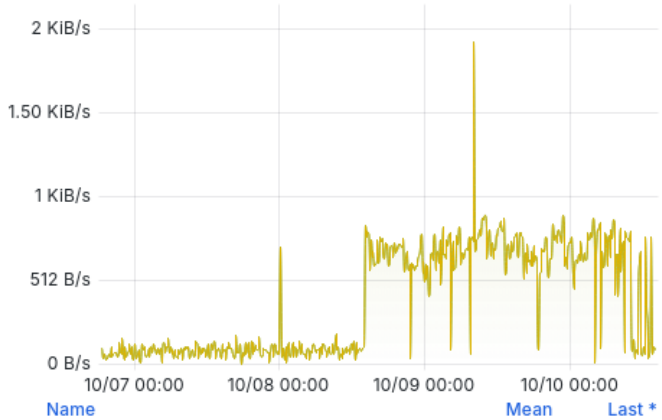
Name	Mean	Last *
Mining Farm Network Interface	245 B/s	227 B/s
Total (farm level)	245 B/s	227 B/s

SV2 - Network Tx (farm level)



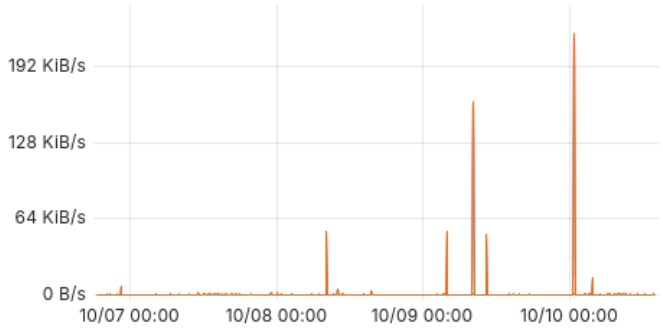
Name	Mean	Last *
Translator	174 B/s	99.7 B/s
Job Declarator Client (JDC)	164 B/s	0 B/s
Template Provider (TP)	183 B/s	59.5 B/s
Total (farm level)	521 B/s	159 B/s

SV1 - Network Rx (farm level)



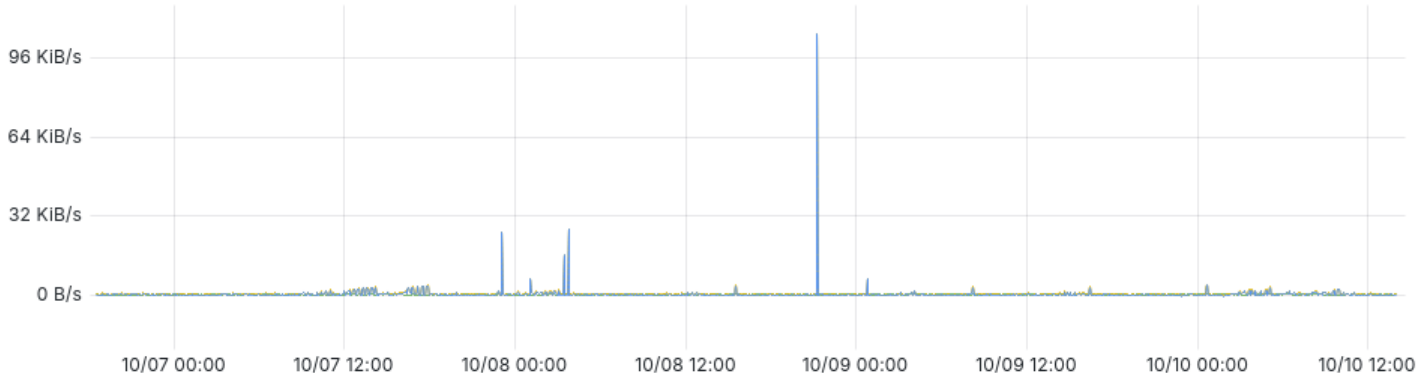
Name	Mean	Last *
Mining Farm Network Interface	383 B/s	85.9 B/s
Total (farm level)	383 B/s	85.9 B/s

SV2 - Network Rx (farm level)



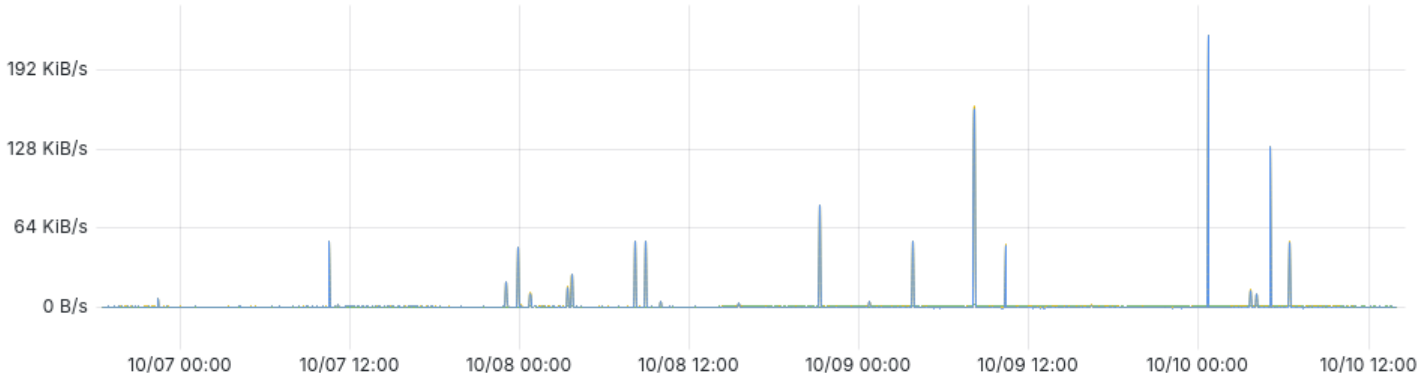
Name	Mean	Last *
Translator	171 B/s	58.7 B/s
Job Declarator Client (JDC)	10.6 B/s	0 B/s
Template Provider (TP)	1.19 KiB/s	35.5 B/s
Total (farm level)	1.37 KiB/s	94.1 B/s

SV1 vs SV2 - Network Tx (farm level)



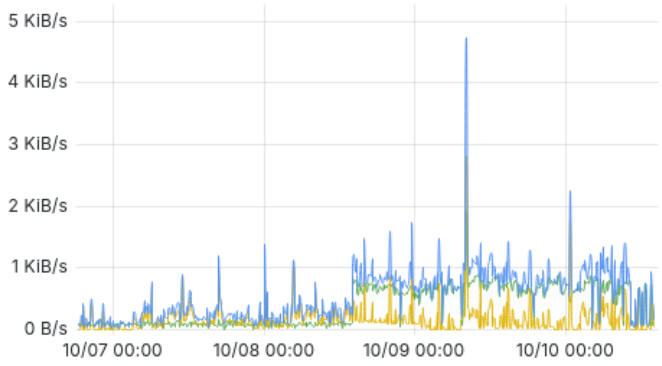
Name	Mean	Last *
SV1 (farm net interface)	248 B/s	227 B/s
SV2 (translator + jdc + tp)	673 B/s	159 B/s
SV2 delta	426 B/s	-68.1 B/s

SV1 vs SV2 - Network Rx (farm level)



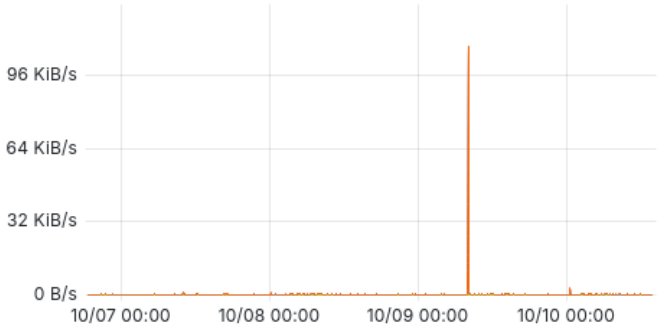
Name	Mean	Last *
SV1 (farm net interface)	385 B/s	85.9 B/s
SV2 (translator + jdc + tp)	1.31 KiB/s	94.1 B/s
SV2 delta	959 B/s	8.27 B/s

SV1 - Network Tx (pool level)



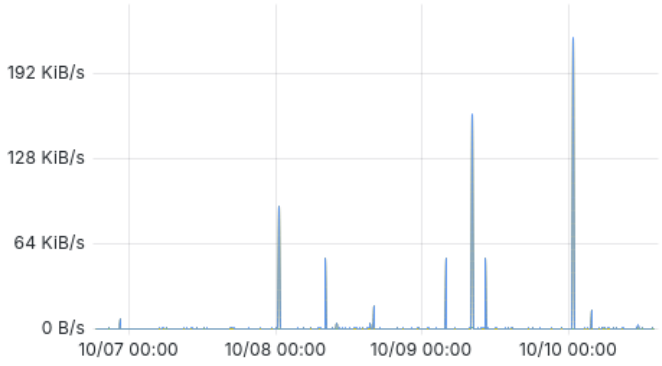
Name	Mean	Last *
Pool	383 B/s	85.9 B/s
Bitcoin Node	167 B/s	43.5 B/s
Total (pool level)	551 B/s	129 B/s

SV2 - Network Tx (pool level)



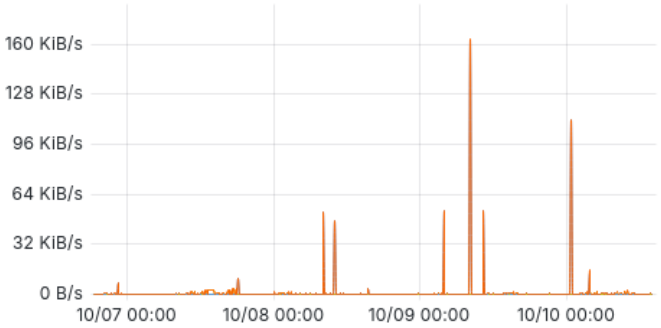
Name	Mean	Last *
Pool	6.60 B/s	0 B/s
Job Declarator Server (JDS)	10.6 B/s	0 B/s
Template Provider (TP)	385 B/s	86.9 B/s
Total (pool level)	402 B/s	86.9 B/s

SV1 - Network Rx (pool level)



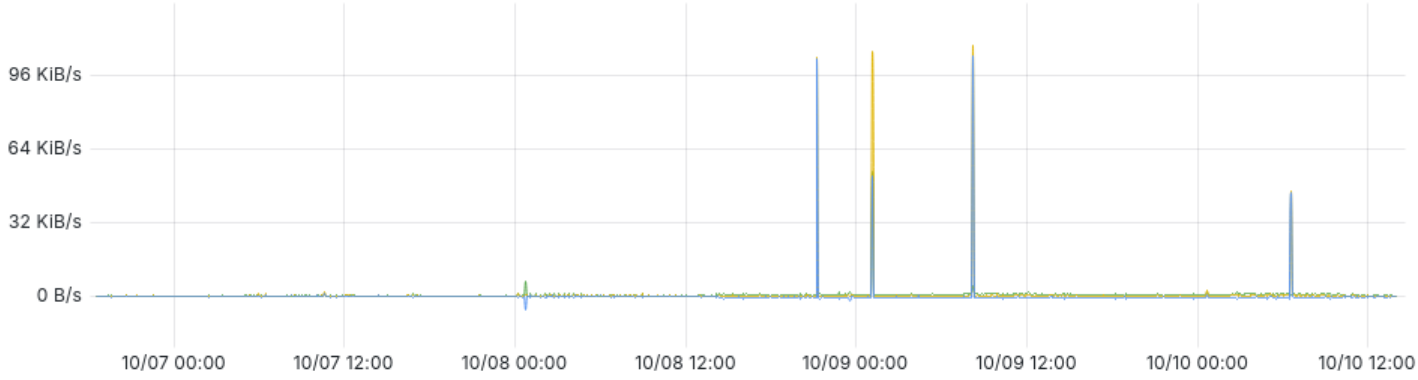
Name	Mean	Last *
Pool	245 B/s	227 B/s
Bitcoin Node	1.39 KiB/s	28.5 B/s
Total (pool level)	1.63 KiB/s	256 B/s

SV2 - Network Rx (pool level)



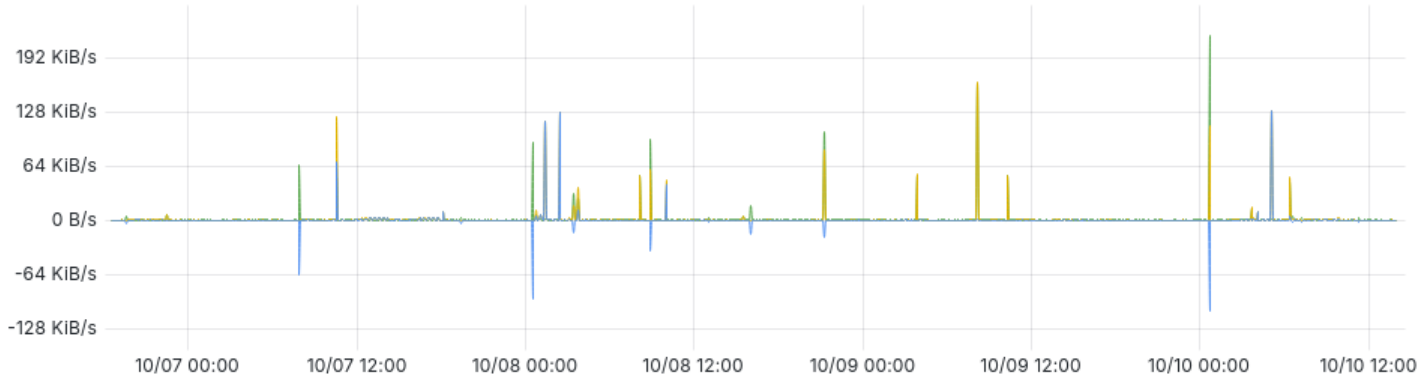
Name	Mean	Last *
Pool	24.3 B/s	0 B/s
Job Declarator Server (JDS)	164 B/s	0 B/s
Template Provider (TP)	1.12 KiB/s	88 B/s
Total (pool level)	1.30 KiB/s	88 B/s

SV1 vs SV2 - Network Tx (pool level)



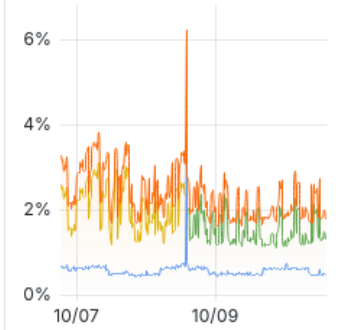
Name	Mean	Last *
SV1 (pool + bitcoin node)	596 B/s	129 B/s
SV2 (pool + jds + tp)	525 B/s	86.9 B/s
SV2 delta	-71.2 B/s	-42.4 B/s

SV1 vs SV2 - Network Rx (pool level)



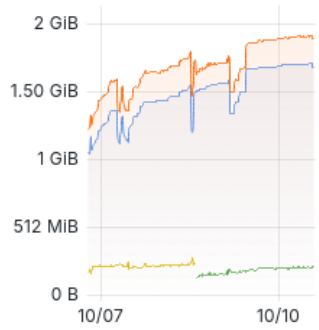
Name	Mean	Last *
SV1 (pool + bitcoin node)	1.41 KiB/s	256 B/s
SV2 (pool + jds + tp)	1.51 KiB/s	88 B/s
SV2 delta	104 B/s	-168 B/s

Pool Roles (SV1) - CPU Usage



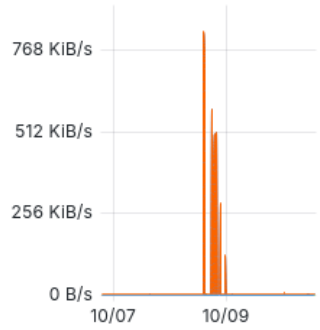
Name	Mean
sv1-pool	1.51%
sv1-pool	2.08%
sv1-node-pool-side	0.585%
Total	2.37%

Pool Roles (SV1) - Memory Us...



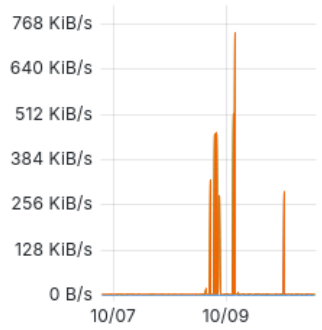
Name	Mean
sv1-pool	187 MiB
sv1-pool	222 MiB
sv1-node-pool-side	1.49 GiB
Total	1.69 GiB

Pool Roles (SV1) - Network Tx



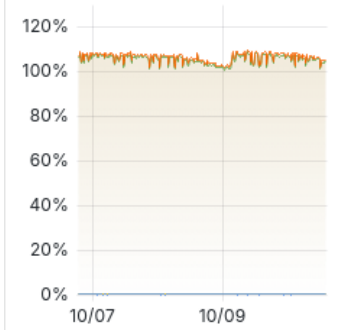
Name	Mean
sv1-pool	1.39 KiB/s
sv1-pool	1.32 KiB/s
sv1-node-pool-side	16.4 KiB/s
Total	17.8 KiB/s

Pool Roles (SV1) - Network Rx



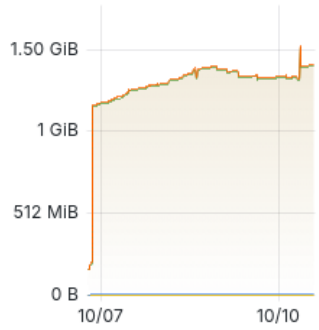
Name	Mean
sv1-pool	21.3 KiB/s
sv1-pool	1.98 KiB/s
sv1-node-pool-side	2.37 KiB/s
Total	14.5 KiB/s

Pool Roles (SV2) - CPU Usage



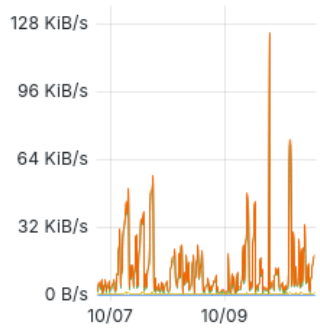
Name	Mean
sv2-tp-pool-side	106%
sv2-jds	0.521%
sv2-pool	0.358%
Total	107%

Pool Roles (SV2) - Memory Us...



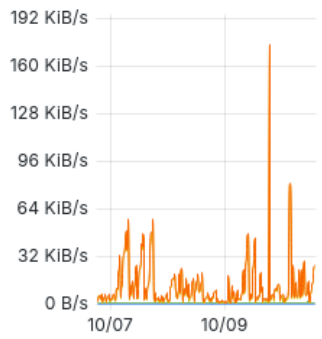
Name	Mean
sv2-tp-pool-side	1.28 GiB
sv2-pool	2.52 MiB
sv2-jds	6.09 MiB
Total	1.29 GiB

Pool Roles (SV2) - Network Tx



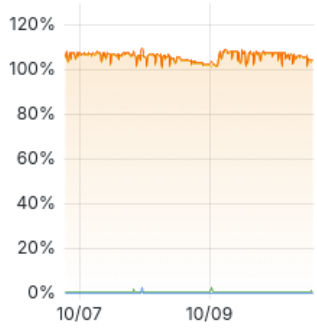
Name	Mean	
sv2-tp-pool-side	11.1 KiB/s	1
sv2-jds	808 B/s	1
sv2-pool	106 B/s	
Total	11.9 KiB/s	1

Pool Roles (SV2) - Network Rx



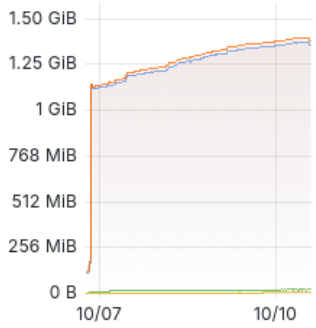
Name	Mean	
sv2-tp-pool-side	821 B/s	
sv2-jds	11.4 KiB/s	2
sv2-pool	137 B/s	
Total	12.3 KiB/s	2

Miner Roles (SV2) - CPU Usage



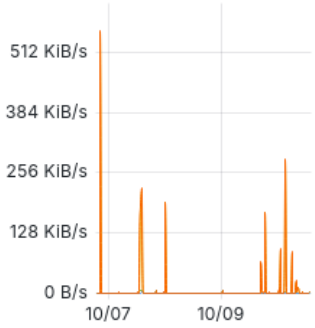
Name	Mean
sv2-jdc	0.471%
sv2-tp-miner-side	106%
sv2-translator	0.0709%
Total	106%

Miner Roles (SV2) - Memory U...



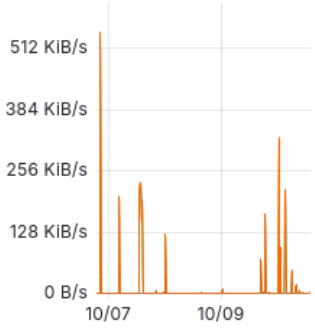
Name	Mean
sv2-jdc	17.4 MiB
sv2-translator	3.59 MiB
sv2-tp-miner-side	1.24 GiB
Total	1.26 GiB

Miner Roles (SV2) - Network Tx



Name	Mean
sv2-jdc	383 B/s
sv2-tp-miner-side	8.57 KiB/s
sv2-translator	238 B/s
Total	9.16 KiB/s

Miner Roles (SV2) - Network Rx



Name	Mean
sv2-jdc	9.41 KiB/s
sv2-tp-miner-side	1.28 KiB/s
sv2-translator	263 B/s
Total	10.8 KiB/s

Uptime

3.82 days

CPU Cores

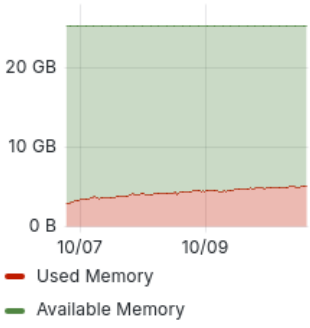
N/A

CPU usage

Host Memory

25.2 GB

Memory usage

Filesystem u...

Node Mermory