CLAIMS:

1. A method, comprising:

instantiating a plurality of worker processes for processing blocks for a blockchain in parallel, each worker process of the plurality of worker processes being associated with an offset into a buffer of blocks in the blockchain to be reported to one or more computing resources;

selecting, from the buffer, a subject block to be reported to the one or more computing resources, the subject block having been inserted into the buffer by a worker process of the plurality of worker processes;

validating the subject block based at least on a block number associated with the subject block and a block number of a next block to be reported to the one or more computing resources;

based on validating the subject block, reporting the subject block to the one or more computing resources; and

marking the subject block in the buffer as a reported block.

2. The method of Claim 1, wherein a size of the buffer is divisible by a number of instantiated worker processes.

3. The method of Claim 1, wherein instantiating the plurality of worker processes comprises selecting a number of worker processes to be instantiated based on an amount of time needed for a worker process to process a block from the blockchain.

4. The method of Claim 1, wherein selecting the subject block to be reported to the one or more computing resources comprises identifying a block in the buffer marked as an unreported block and having a position in the buffer later than a last block in the buffer marked as a reported block.

5. The method of Claim 1, wherein the buffer comprises a ring buffer interleaving a plurality of worker process-specific buffers.

6. The method of Claim 5, wherein each worker process-specific buffer is sized such that each worker process-specific buffer includes one or more reported blocks and one or more unreported blocks generated by a worker process associated with a respective worker process-specific buffer.

7. The method of Claim 1, further comprising:

receiving, from the one or more computing resources, an indication that the subject block was not successfully reported to the one or more computing resources;

retrieving the subject block from the buffer, the subject block having been marked as reported to the one or more computing resources; and

re-reporting the subject block to the one or more computing resources.

8. The method of Claim 1, wherein blocks in the buffer are reported serially to the one or more computing resources.

9. The method of Claim 1, wherein selecting the subject block to be reported to the one or more computing resources comprises:

determining that a location in the buffer at which a worker process associated with a next block for reporting comprises one of a null block or a block marked as reported; and

pausing reporting of blocks to the one or more computing resources until the location in the buffer at which the worker process associated with the next block for reporting comprises a block marked as unreported.

10. A system, comprising:

a buffer;

a plurality of worker processes configured to process blocks in a blockchain in parallel, each worker process of the plurality of worker processes being configured to:

retrieve, from a blockchain, a block for processing based on a block number associated with the block and an offset associated with the worker process;

process the block; and

insert the processed block into the buffer, wherein an index of the processed block in the buffer is based on a size of the buffer and a block number associated with the processed block, and wherein the processed block includes an indication that the block is an unreported block; and

a block reporting leader configured to:

instantiate the plurality of worker processes, each worker process being instantiated with the offset;

select, from the buffer, a subject block to be reported to one or more computing resources;

validate the subject block based on a block number associated with the subject block and a block number of a next block to be reported to the one or more computing resources;

report the subject block to the one or more computing resources based on validating the subject block; and

mark the subject block in the buffer as a reported block.

11. The system of Claim 10, wherein the offset is based on a number of worker processes instantiated by the block reporting leader.

12. The system of Claim 10, wherein in order to insert the processed block into the buffer, each worker process is configured to overwrite a null entry or a reported block in the buffer at an index equal to the block number modulo a size of the buffer.

13. The system of Claim 10, wherein in order to select the subject block to be reported to the one or more computing resources, the block reporting leader is configured to identify a block in the buffer marked as an unreported block and having a position in the buffer later than a last block in the buffer marked as a reported block.

14. The system of Claim 11, wherein the buffer comprises a ring buffer including a plurality of worker process-specific buffers.

15. The system of Claim 10, wherein the block reporting leader is further configured to:

receive, from the one or more computing resources, an indication that the subject block was not successfully reported to the one or more computing resources;

retrieve the subject block from the buffer, the subject block having been marked as reported to the one or more computing resources; and

re-report the subject block to the one or more computing resources.