

Based Rollup.

An L1 contract that allows anyone to submit valid L2 blocks. crLists may be submitted on L1.

Blocks are built by L1 searchers/builders from a mempool.

crLists are transaction lists required for inclusion in a future block. They may be compressed, e.g.

`[[to, sig], [nullifier, proof], [nullifier, proof]] -> compress([[[to], [nullifier], [nullifier], proof]])`

Fees for crLists may be calculated to target a minimum block production rate.

Network risk is minimized compared to alternatives (liveness, censorship, escape-hatch - all inherited from L1). MEV moves to L1.

This solution is simple enough to be feasible within 6 months.

crList grieving might require an inclusion delay.

crList pricing is an open question.

<https://ethresear.ch/t/based-rollups-superpowers-from-l1-sequencing/15016> <https://notes.ethereum.org/@fradamt/forward-inclusion-lists> https://vitalik.ca/general/2022/09/17/layer_3.html