

Summary

Use proposers to run an auction for proof production. This proposal is compatible with both [PBS](#) and [Fernet](#).

Context

Monero has a [decentralized mining pool](#), which uses a second blockchain to coordinate work. This proposal defines a fair structure under which such work pools may be created. Highly-available decentralized networks are expected to have the cheapest access to capital and compute, assuring liveness without adding complexity to the core protocol.

Details

1. (init) provers

deposit bond collateral

1. builder

broadcasts bond requirements and proof data to provers

- a bond consists of a proposal portion, and an MEV portion
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- provers

with sufficient bond broadcast bids

1. builder

signs and broadcasts the winning bid

1. proposers

attest to timely availability of the winning bid

1. prover

submits proof to L1

If a prover fails to submit a proof in time, the builder

avoids slashing by submitting the signed winning bid.

The provers proposal bond portion is burnt, and the MEV portion transferred to the builder

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