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I wonder if the slashing conditions could be flawed inpaper v4?
Here is the demonstration(which is a modification of figure 3 in the paper):
[
casper_ffg_conflicting
849×1001 45.5 KB
](https://ethresear.ch/uploads/default/original/2X/b/bb57023bf62473ffeced2efe6d7e4c53f736c4aa.png)
In the figure the purple arcs are supermajority links. a 1, a 2, a 3, b 4, b 5
are justified, and in which a_2, b_4
are finalized while you can see that a_2
and b_4
are conflicting. Less than 1/3 validators violate the slashing conditions.
In the proof of Theorem 1 we didn't consider the edge case that chain {a_i}
can overlap the chain {b_i}
To be more specific, In the proof, "We know that no h(b_i)
equals either h(a m)
or h(a_{m+1})
is not true when b_i
is a_m
or a_{m+1}
. So in the proof, b_{j-1}
can be a_{m+1}
or a_m
(in the figure above, take m=2, j=4
, then b_3=b_{j-1}=a_{m+1}=a_3
Maybe we should add slashing condition that the source and target of a vote are conflicting?
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I would like to beg your pardon and please correct my errors if my understanding is wrong.