

Re: Cantor and the binary tree

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- *From:* Robert Kolker <nowhere@xxxxxxxxxxxx>
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mueckenh@xxxxxxxxxxxxxxxxxxxxx wrote:

of paths always equals that of the nodes + 1. It is simply impossible to assume that one of these numbers becomes uncountably infinite while the other remains countably infinite.

Wrong. $2^{\aleph_0} > \aleph_0$.

List all the infinite binary sequences with a bijection to the integers. Now flip the n -th digit of the n -th sequence in the list. This cannot occur anywhere in the list. Contradiction. Such a bijection to the integers does not exist.

Bob Kolker

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