Re: My claim on Omega's defn

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From: |−|erc (*H_at_r.c*)
Date: 01/30/05

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"Arthur Fischer" <arthurfischer@sym.ca> wrote in
> |−|erc wrote:
> > Omega = sum(p halts) 1 / (2 ^ size(p))
> >
> > [big snip]
> >
> > Even with infinitesimally small total probability of halting, Omega will not converge and will equal oo.
>
>
> You seem to be missing the point that the domain of the universal
> self−delimiting TM U is taken to be prefix−free −−− ie, the encoding of
> halting TMs is such that if x is the encoding of some halting TM, then
> no proper prefix of x is a encoding. Basically, any branch of the
> infinite−binary tree will contain at most one such encoding, and so to
> simply say that there are 2^n encoding with n bits is just being
> ignorant. If follows via Kraft's inequality that Chaitin's Omega will
> be bounded.

So all Omega means is there exists 1 program of that size that halts.

What a load of crap, I could design an arbirtrary UTM where Omega = 1.

It skips 100% of programs without any reason.

Herc