

# Re: Well Ordering the Reals

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*Source:* <http://sci.tech-archive.net/Archive/sci.math/2005-11/msg01960.html>

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- *From:* "Randy Poe" <[poespam-trap@xxxxxxxxxx](mailto:poespam-trap@xxxxxxxxxx)>
  - *Date:* 15 Nov 2005 14:48:59 -0800
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Tony Orlow wrote:

> David R Tribble said:  
>> David R Tribble wrote:  
>>> All members of  $\ast N$  will map to subsets of  $\ast N$ . That's not the problem.  
>>> There are subsets of  $\ast N$  that are not mapped by any member of  $\ast N$ .  
>>> That's the problem.  
>> Tony Orlow wrote:  
>>> Oh. Can you name one, please?  
>>  
>> I already have, several times. You just keep ignoring them.  
>>  
> No you haven't. You have spoken in vague terms, claiming that  $N$  indexes the  
> bits of each element in  $\ast N$

What is vague about "there is one bit for every  $n$  in  $N$ "?

> when in fact you need bits with actually infinite  
> bit positions to achieve the infinite values in  $\ast N$ .

This claim is either (a) wrong or (b) unjustified, since you haven't defined

what you mean by this set  $\ast N$ . The only definition I've seen so far is that " $\ast N$  is the set of bit strings whose bits are labelled with elements of  $\ast N$ ". From that I conclude that  $\ast N$  is the empty set, with no bits, and that there is no need for infinite labels.

– Randy

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- *References:*
  - ◆ ***Re: Well Ordering the Reals***  
    ◇ *From:* Robert Low
  - ◆ ***Re: Well Ordering the Reals***  
    ◇ *From:* David Kastrup

Re: Well Ordering the Reals

- ◆ **Re: Well Ordering the Reals**  
◇ From: Tony Orlow
- ◆ **Re: Well Ordering the Reals**  
◇ From: Daryl McCullough
- ◆ **Re: Well Ordering the Reals**  
◇ From: Randy Poe
- ◆ **Re: Well Ordering the Reals**  
◇ From: David R Tribble
- ◆ **Re: Well Ordering the Reals**  
◇ From: Tony Orlow
- ◆ **Re: Well Ordering the Reals**  
◇ From: David R Tribble
- ◆ **Re: Well Ordering the Reals**  
◇ From: Tony Orlow

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