

Here are my Quads 07 questions.

Thanks

We use a number system  $S$  where the positions represent

1, -2, 4, -8, and so on, and each entry can be 0 or 1.

- ✓ 1. How will you convert a number in  $S$  to binary without converting to decimal?
2. How about binary to  $S$  without converting to decimal?
3. How will you add two numbers in the  $S$  system without going through the binary system?
4. Is there a problem with the  $S$  system?
5. Are all numbers in the  $S$  system unique?

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