
Subject: findgen anomaly?

Posted by [Chris Chronopoulos](#) on Fri, 10 Jul 2009 21:41:06 GMT

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hi -

this morning i decided to write up a short function that would return a list of values given a min, max and increment (like Mathematica's `Range[]` function) but it was giving me some problems. i narrowed it down to an oddity in `findgen`, which can be described by the following example:

```
IDL> min=5.5
IDL> max=6.2
IDL> increment=0.1
IDL> print, (max-min)/increment+1
      8.00000
IDL> print, findgen(8.00000)
      0.00000   1.00000   2.00000   3.00000   4.00000
5.00000
      6.00000   7.00000
IDL> print, findgen((max-min)/increment+1)
      0.00000   1.00000   2.00000   3.00000   4.00000
5.00000
      6.00000
```

now, by any reasonable system of logic, shouldn't the last two lines produce the same result? the correct result, of course, is the first one that goes all the way up to 7.00000. the weird thing is that if you change `max` from 6.2 to 6.3, it works fine. it seems there are certain values that give it problems, while others work fine.

what is going on here?
