Subject: Re: Filling an array
Posted by John-David T. Smith on Thu, 18 Jan 2001 20:28:54 GMT
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## "Pavel A. Romashkin" wrote:

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>
> Thanks David and Craig. If Craig says "no", this means something.
> Although I'd wait with the verdict until I hear from JD :-) After all,
> the loop I have with Total, although it goes through all elements of B,
> is taking only 0.03 s on my machine for B with ~2500 points converted to
> C with ~50k points, which is acceptable since it is not executed many
> times repeatedly. In contrast with looping using Replicate that was
> taking 5.5 s :-(
>
> Cheers,
> Pavel
  "Pavel A. Romashkin" wrote:
>>
>> If I have
>>
>> a = findgen(10)
\Rightarrow b = fix(100* randomu(10, 10))
>> : N elements(a) is equal to n elements(b)
>> c = findgen(total(b))
>>
>> how can I fill C with values from A using B as a running index, so that
>> c[0:b[0]-1] = a[0]
>> c[b[0] : b[0]+b[1]-1] = a[1]
>> etc, without looping through "n_elements(b)-1" iterations?
>> I have a fast solution with a loop and indexing using total(/cumulative)
>> and a very slow one with loop and replicate, but I can't come up with a
>> loop-free one.
```

Despite the fact that getting a job and writing a thesis should be my foremost priorities....

tmp=histogram(total(b,/CUMULATIVE)-1,/BINSIZE,MIN=0,REVERSE\_ INDICES=ri) c=a[ri[0:n\_elements(ri)-n\_elements(b)-2]-ri[0]]

JD

P.S. Let's just say (TM) we all knew it had to use histogram.

P.P.S. A loop free solution is not guaranteed to be fastest in all cases. It \*is\* guaranteed to elicit various

histogram/median/rebin/reform/## curses from newsgroup readers.

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