
Subject: Re: How to speed up large FOR loops?
Posted by [Fabzi](#) on Tue, 10 Apr 2012 16:17:26 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi,

Do you concatenate arrays in your loop?

e.g: out = [out, tmp]

On 04/10/2012 05:48 PM, Saurav Dhital wrote:

> Hi,

>

> By necessity, I have to use a long FOR loop (N>~ 300,000). I have
> made the operations inside the loop efficient enough that the first
> 40,000 iterations are relatively fast (~30 mins). Then it slows down
> to a crawl, with the entire process taking>24 hours. I would
> appreciate any advice how to speed this up.

>

> The operation inside the loop involves matching between two (large)
> FITS files and assigning the matches to another (previously created)
> FITS structure. There are no new variable created per iteration, so
> there should be no memory being used (each loop writes over the
> variables anyways). I even create small substructures (e.g.,>
> sub_mystruct = mystruct[0:10]) so that I don't have to index the large
> structures.

>

> Any tip or advice would be much appreciated,
> ~Saurav
