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Subject: Memory management when concatenating arrays

Posted by [rjp23](#) on Wed, 28 Oct 2015 13:49:35 GMT

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I have a large multi-dimensional array that is split across several files by time.

i.e. file1 contains the first 1000 timesteps, [360,180,1000], file2 contains the next 1000 timesteps [360,180,1000], etc.

What I want to end up with is one big array that's read say all 10 files in and is (360, 180, 10000).

What I'm doing is this in a loop:

```
all_data=[[[all_data]], [[data]]]
```

But I quickly run out of memory trying to concatenate in this way.

I tried using temporary

```
all_data=[[[temporary(all_data)], [[data]]]
```

but this doesn't help.

Is there an efficient way of doing this?

Cheers

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