Subject: Re: Maddening structures
Posted by Edd Edmondson on Mon, 18 Sep 2006 12:24:20 GMT

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Maarten <maarten.sneep@knmi.nl> wrote:

> Edd wrote:
>> OK, I've got some data read in so that I have a structure that looks
>> like
>>
>> data.foo[600]
>>   .bar[600]
>>   .baz[600]
>>
>> and I want
>> data[600].foo
>>   .bar
>>   .baz
>>
>> In other words I want an array of structures rather than a structure
>> of arrays.
>>
>> Does anyone have any magic that works for the case when foo, bar and
>> baz are not previously known?

> Perhaps my reading comprehension isn't quite awake yet, but:

> 1) do you mean the names themselves, or the number of fields (there may
> also be a fuu around, in addition to the foo, bar and baz)?

I'd basically like the most general method I can find (so I don't have
to go recoding stuff when another field gets added a week or two down
the line). So number and naming of fields should be considered flexible.

> Get the names with tag_names(data), obtain the length with
> size(data.(0), /dim), create a base struct with base =
> CREATE_STRUCT(...) and replicate() the base to the right size. At least
> that is where I would look. Copying is another matter, perhaps others
> can comment on how to do this efficiently. At least you have the right
> structure to store the stuff.

That's where I was looking too. I wasn't sure how to handle the
structure creation neatly though. Once you have the tag names you can
loop over them in a for loop (there won't be that many tags anyway) so
it's not too bad. Just a bit hairy. It'd be nice if there was a
reform-alike. :-)

I may try for an alternative workaround, as rejigging the other bits

probably involves less recoding than doing the jigging with this.

--
Edd