
Subject: Re: Maddening structures

Posted by [Edd Edmondson](#) on Mon, 18 Sep 2006 12:23:19 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 nearly 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 jiggling with this.

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Edd
