Subject: Re: Combing structures Posted by Michael Williams on Mon, 16 Aug 2010 19:00:38 GMT

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On 2010-06-07 17:01:42 +0200, Michael Williams said:
> xx = findgen(5)
> v = 1.0
> str1 = {one: xx, two:y}
> xx = findgen(3)
> y = -1.0
> str2 = {three: xx, four: y}
>
> I want to merge them into one flat structure of their elements. At the
> moment I am doing this manually:
I now have a related question. If
IDL > x = \{a: [1,2], b: [3,4]\}
IDL > y = \{a: [5,6], b: [7:8]\}
```

then doing

$$IDL> z = [x, y]$$

works, but yields, for example,

I would like to concatenate two structures with matching tags by simply appending arrays, so that I get a structure in which

Is there a built-in way of doing this? The structures I am concatenating will always be defined such that the individual tags can be concatenated trivially like

but the only way I can think of doing this for the entire structure is by iterating over the tags and using the execute procedure [implementation after the signature], which is obviously spectacularly inelegant. Is there a better way?

-- Mike [*] Like this. test_append_struct shows it in use. function append_struct, tx, ty tags = tag names(tx)s = 'tmp = create_struct("' + tags[0] + "", [tx.' + tags[0] + \$ ', ty.' + tags[0] + '])' void = execute(s) for i = 1, n_elements(tags) - 1 do begin s = 'tmp = create_struct(tmp, "' + tags[i] + '", [tx.' + tags[i] + \$ ', ty.' + tags[i] + '])' void = execute(s) endfor return, tmp end pro test_append_struct $p1 = \{x: 0, y:1, z: 1.5\}$ $p2 = \{x: -1, y:2, z: 4\}$ $p = append_struct(p1, p2)$ help, p, /struct print, p.x print, p.y print, p.z $p = append_struct(p, p2)$ help, p, /struct print, p.x print, p.y print, p.z end