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Subject: Re: idlastro mrdfits and strings

Posted by [wlandsman](#) on Thu, 12 Nov 2009 17:40:04 GMT

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On Nov 11, 3:58 pm, Chris Thom <christ...@gmail.com> wrote:

- > I'm not sure if these tags are being padded in the write or the read
- > phase, but it'd be nice if there was a way to trim these tags on read.
- > Or is there some reason this is a bad idea?

The tags are being padded in the write. The problem is related to one I discussed earlier

[http://groups.google.com/group/comp.lang.idl-pvwave/browse\\_frm/thread/95e19b78119ab265/41b6775e8ae24ffe](http://groups.google.com/group/comp.lang.idl-pvwave/browse_frm/thread/95e19b78119ab265/41b6775e8ae24ffe)

where IDL does not include a terminating null byte for the string tags when writing a structure to disk. So to do this correctly, one has to convert the string tags in a structure to bytes, which means creating an entirely new structure (since one can't change data types of a structure element), greatly slowing things down and complicating the code. It is a fix that I should do sometime, but I am not in a hurry to do so. (But I will document this bug/feature better.)

- > The work-around (sprinkling `strtrim()`s throughout the code) is
- > functional if a little ugly.

If you are sure that you don't care about leading/trailing spaces, you could apply the following function right after the call to `mrdfits()`

```
function trimstruct,str
; Trim each string element of a structure, assume there are not
; substructures
N= N_tags(str)
for i=0,n-1 do $
    if size(str.(i),/tname) EQ 'STRING' then str.(i) = strtrim(str.(i),
2)
return
end
```

(Actually, it would be nice if one could apply `strtrim()` directly to a structure to do this.) --Wayne

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