

---

Subject: structures, driving me crazy

Posted by [Luis Alonso](#) on Fri, 24 Nov 2000 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi!

I have a dataset of images with corresponding header files.

The header files (which i want to read) consist of three float numbers, and then 9 rows of data with 8 elements each. Each row corresponds to a spectral band of the image.

i've got 138 images all related, so i want to have all the headers open and related.

I thought about creating a structure for each band:

```
att={roll:0.0,pitch:0.0,head:0.0,utme:0L,utmn:0L,alt:0.0,vel :0.0}
```

and then create an array of structures

```
band=replicate(att,9)
```

then create a header structure

```
header={date:"",sunazi:0.0,sunzen:0.0,bias:0.0,band:???
```

and then replicate it for the whole set:

```
image=replicate(header,138)
```

of course i found several problems. First, i didn't know how to initialize the tag band as a structure array of the type band in the structure definition of header.

second, i tried to use concatenation of structures, of the kind:

```
p = CREATE_STRUCT('A', 1, 'B', 'xxx')
```

```
p = CREATE_STRUCT('FIRST', 0, p, 'LAST', 3)
```

so i tried:

```
header=create_struct('date','', 'sunazi',0.0,'sunzen',0.0,'bias',0.0,band)
```

i know there are workarounds, as using separate structures for bands and the rest of the header... but i thought there MUST be a way of putting it all together, and being able to access data as:

```
image[102].date
```

```
as well as
```

```
image[102].band[3].utme
```

So, what am i missing?

David, i guess this is somehow explained in your book, and i'm getting it for christmas. But i'd like to have the answer a bit sooner ;)

Greetings,

Luis =)

---