Subject: alignment of IDL structures: what's the *real* story?
Posted by alans on Mon, 08 Jun 1992 16:16:18 GMT

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Ok, I thought I had this alignment stuff all figured out here, but now it gets
even worse! I have IDL 2.2.1 running on a sun 4, which loves to have things
longword aligned, I know... However, if I create a structure of structures like
this:
Lines: 29

```
 lw = long (0)
 ; "simple" is 44 bytes long
 simple = { SIMPLE_T, a: lw, b: lw, c: lw, x: lonarr(8) }

 ; "bigger" should be 104 bytes. but it's 112!
 bigger = { BIGGER_T, a: lw, b: lonarr (3), x: simple, y: simple }

IDL> help,/str,a
** Structure BIGGER_T, 4 tags, length=112:
  A          LONG             0
  B          LONG     Array(3)
  X          STRUCT    -> SIMPLE_T Array(1)
  Y          STRUCT    -> SIMPLE_T Array(1)
IDL> help,/str,a.x
** Structure SIMPLE_T, 4 tags, length=44:
  A          LONG             0
  B          LONG             0
  C          LONG             0
  X          LONG     Array(8)
IDL> print,!version
{ sparc sunos 2.2.1}
```

So what's the story? Are structures automatically double-aligned? This is
getting *really* horrid...

[ps: If posting a reply, please email me a copy.]

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