Subject: Re: Structures and arrays of structures
Posted by Markus Schmassmann on Fri, 28 Oct 2016 12:04:17 GMT
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On 10/28/2016 12:12 PM, rjp23@le.ac.uk wrote:
> This has me stumped at the minute so I was hoping someone could help as I thought it
SHOULD be simple.
>
> I have a anonymous structure in this form:
>
> IDL> help, global_struct
> ** Structure <8341ea08>, 15 tags, length=138736, data length=138736, refs=1:
>   DATE   FLOAT   Array[2392]
>   ORIG   FLOAT   Array[2392]
>   FUNC   FLOAT   Array[2392]
>   POLY   FLOAT   Array[2392]
>
> I have a second anonymous structure in this form:
>
> IDL> help,aus_struct
> ** Structure <838a5ee8>, 15 tags, length=135780, data length=135778, refs=1:
>   DATE   FLOAT   Array[2341]
>   ORIG   FLOAT   Array[2341]
>   FUNC   FLOAT   Array[2341]
>   POLY   FLOAT   Array[2341]
>
> I have many other structures in the same form and want them all to
> be contained in one item so they can be easily passed into other
> procedures, etc.
>
> The tag names within the structure are the same so I can use code
> generically on any of them.
>
> The structure name itself is generated from a string array
> ['global','aus', 'europe', 'us', etc]
>
> I can't concatenate the structures into a single as they all have
> thesame tag names. I thought I could create an array of structures but that
> doesn't seem to work. I wondered if I could create a structure of
> structures? main.global_struct.dat, main.aus_struct.date, etc but can't
> figure out how to.
>
> Any suggestions would be really useful.
loc=['global', 'aus', 'europe', 'us']
cmd='main=create_struct('
for i=0,n_elements(loc)-1 do $
 cmd+="'"+loc[i]+"_struct',"+loc[i]+"_struct,"
cmd=strmid(cmd,0,strlen(cmd)-1)+")"

void=execute(cmd)

i hope that helps, Markus