
Subject: Problem combining structures

Posted by [Jacco de Zwart](#) on Fri, 07 Sep 2001 17:45:07 GMT

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Hi,

I have a problem combining two structures, which contain different tag names, if one of them is a structure-array. Example:

I make three structures: aa, bb and cc

```
IDL> aa={a:1,b:2}
```

```
IDL> bb={c:aa}
```

```
IDL> cc=replicate(bb,10)
```

```
IDL> help,aa,bb,cc
```

```
AA          STRUCT    = -> <Anonymous> Array[1]
```

```
BB          STRUCT    = -> <Anonymous> Array[1]
```

```
CC          STRUCT    = -> <Anonymous> Array[10]
```

Assume I want to make a structure which combines aa and bb

```
IDL> dd=create_struct(aa,bb)
```

```
IDL> help,dd,/str
```

```
** Structure <8237944>, 3 tags, length=8, refs=1:
```

```
  A          INT          1
```

```
  B          INT          2
```

```
  C          STRUCT    -> <Anonymous> Array[1]
```

This obviously works fine

However, combining aa and cc in this way doesn't work

```
IDL> dd=create_struct(aa,cc)
```

```
% CREATE_STRUCT: Expression must be a scalar in this context: CC.
```

```
% Execution halted at: $MAIN$
```

I can however generate the result that I want manually

```
IDL>
```

```
dd=create_struct([tag_names(aa),tag_names(cc)],aa.(0),aa.(1),cc.(0))
```

```
IDL> help,dd,/str
```

```
** Structure <8238934>, 3 tags, length=44, refs=1:
```

```
  A          INT          1
```

```
  B          INT          2
```

```
  C          STRUCT    -> <Anonymous> Array[10]
```

Loopwise adding elements of one structure to the other also doesn't work:

```
IDL>
```

```
dd=cc
```

```
IDL> for i=0,1 do dd=create_struct(dd,(tag_names(aa))[i],aa.(i))
```

```
% CREATE_STRUCT: Expression must be a scalar in this context: DD.
```

```
% Execution halted at: $MAIN$
```

This was done in IDL 5.3 under Linux. Does anyone know how to do this?

Thanks in advance for your help!

Jacco de Zwart
