Subject: Re: dlm creating an array? Posted by Randall Skelton on Wed, 04 Apr 2001 08:22:09 GMT View Forum Message <> Reply to Message

Thanks for the help JD and Jim! That was WAY easier than I thought it would be :)

Randall

```
Two ways. Here is the better:
>
> void test_array(int argc, IDL_VPTR argv[])
> {
   float *test:
>
   int i;
>
>
   IDL_MEMINT dim[2];
   IDL VPTR tmp;
>
>
   dim[0]=dim[1]=10;
>
   /* Make Sure we can write to it, free anything already associated */
>
   IDL_StoreScalarZero(argv[0], IDL_TYP_LONG);
>
>
   test=(float *)IDL_MakeTempArray(IDL_TYP_FLOAT,
  2,dim,IDL ARR INI NOP,&tmp);
   IDL_VarCopy(tmp,argv[0]); /* This is the key. Copy tmp to passed arg
>
   for(i=0;i<100;i++) test[i]=i*i;
>
>
>
> That is, you make a temporary array, and copy it over to the passed
> argument (no data is actually copied, since it's a temporary). The
> StoreScalarZero makes sure it's passed by reference.
>
 This method is easiest. Another way is to make your own data, and then
> use IDL_Import_Array to wrap an IDL_VPTR around it (also no copying)
> performed). They are basically equivalent, but the typing is more up
> front with a the temporary variable method.
>
> Please note that I did not free the tmp VPTR with IDL DelTmp(). Why?
> Because it was already reclaimed by IDL VarCopy (which in this case is
> more of a renaming than a copy). Doing so twice is a no-no.
>
> What if you have an arbitrary number of dimensions (read from the file
> perhaps)? I'd simply declare dim[IDL_MAX_ARRAY_DIM] instead, and test
  to ensure this limit isn't surpassed.
>
>
> Good luck,
>
```

```
> JD
```

Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive