Subject: Pointers to a variable...
Posted by H. Evans on Fri, 26 Aug 2011 13:17:17 GMT
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In other less friendly languages, e.g. C, the pointer points to an area of memory, which can coincide with a variable. This gives two methods to access the contents of the variable:

```
#include <stdio.h>
main() {
    int a=5;
    int *p;

    p = &a;
    printf("a=%i, *p=%i\n", a, *p);
    a= 10;
    printf("a=%i, *p=%i\n", a, *p);
}

outputs:
    a=5, *p=5
    a=10, *p=10
```

So, now that IDL has pointers...can a pointer be set to point to a variable in the same way, i.e. to reference exactly the same memory space as the variable?

From the examples, I am under the impression that these pointers don't quite work in the same way, i.e. the pointers don't point to the same memory space as the variables.

The reason I ask is that there are some very large variables that I'd rather not duplicate (waste of memory), but would like to group serially via a pointer array.

As a trivial example:

```
a = FINDGEN(10000000L)
b = DINDGEN(200000L)
c = REPLICATE(!P, 10000L)
p = PTRARR(3, /ALLOC)
*p[0] = a
*p[1] = b
*p[2] = c

for i=0,n_ELEMENTS(p)-1 DO print,N_ELEMENTS(*p[i])
```

Is the only solution to create a,b, and c as heap variables in the first instance and then point p[i] to the heap variable?

Ta. Hugh

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