Subject: indexing arrays with arrays
Posted by ljg on Thu, 30 Jun 1994 14:31:35 GMT
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I have an application where I'm trying to re-bin an array of data sampled at arbitrary coordinates into an array whose indices indicate sampling coordinates. (First sum the data into appropriate bins, then average as necessary, and finally interpolate as appropriate.)

I'm trying to do this "the IDL way" (IMHO) by calculating an index mapping array and using this map to sum the data into appropriate bins. However, the behavior isn't what I expect. A simple example:

```
IDL> a = fltarr(3)
IDL> map = [1, 1, 2]
IDL> a(map) = a(map) + [1.0, 2.0, 3.0]
IDL> print, a
      0.00000      2.00000      3.00000
```

Here "a" will hold the accumulated data and "[1, 1, 2]" is the index re-mapping array (map the first and second data items to the second destination position and map the third data item to the third destination position). When I try to add the data "[1.0, 2.0, 3.0]" I had hoped that "1.0" and "2.0" would have been summed into a(1) and "3.0" into a(2), resulting in a = [0.0, 3.0, 3.0].

Why doesn't this work?

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