Subject: Replication question

Posted by Michael Wallace on Wed, 14 Sep 2005 23:09:02 GMT

Hey guys,

I know there's got to be an easy way to do this, but my brain is cramped
up right now. Given an array input, I'd like to output an array where
the index of the of the input array is replicated by the corresponding
value in the input array. The input array will always contain positive
values.

For example...
input: [1, 2, 1, 4]
output: [0, 1, 1, 2, 3, 3, 3, 3]

input: [3, 3, 3, 1]
output: [0, 0, 0, 1, 1, 1, 2, 2, 2, 3]

I know that I could loop over my input array, replicate the loop
variable by the value of the input array at each position and
concatenate the resulting arrays, but this solution does not seem like
"The IDL Way". Any dimensional jugglers out there know a nice looking
solution?

-Mike