
Subject: zonal means, selective TOTAL(), etc.

Posted by [Craig Markwardt](#) on Wed, 18 Mar 1998 08:00:00 GMT

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I have also had the need for totalling over selective dimensions
(sometimes more than one dimension), and also MIN/MAX.

Check out my IDL web page for CMAPPLY(), which can apply quite a
number of operations to selected dimensions of an array. You can do
this to more than one dimension at a time using a *list* of dimensions
(similar to the DIMENSIONS parameter to MAKE_ARRAY or to REFORM).

<http://astrog.physics.wisc.edu/~craigm/idl/idl.html>

CMAPPLY supports more than just addition; it does:

'+'	addition	'*'	multiplication
'AND'	logical AND	'OR'	logical OR
'MAX'	maximum	'MIN'	minimum

Where possible I avoid loops to improve performance, but your mileage
may vary depending on the detailed use. [For example, for small
arrays, your own loop may be faster].

Craig

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