Subject: Re: reversing calculation order Posted by Fergus Gallagher on Thu, 04 May 1995 07:00:00 GMT View Forum Message <> Reply to Message

rclark@phantasos.lpl.arizona.edu (Richard Clark) wrote: > I need to fill in some values for a vector from a recurrence relation. > V(0:N-1) = func(V(1:*)); I wish there was a shorthand for (*-1) > > Where V(N) is the only value initially defined (Well actually it is > calculated from an ascending recurrence relation but the values of > V(0:N-1) from that step are of no further interest. The results of the > second recurrence are the ones returned.) > I know that ROTATE can be used to reverse the order of the vector for the > calculation, and then reverse them again to put it back in the right > order. But is it possible to eliminate these two reverse operations and do > the calculation in backwards direction? (no FOR loops, too slow!) > The vector is fairly short but this function will get called a lot. Vector elements can be accessed with other vectors, e.g., IDL > x = fltarr(n)IDL > i = n-1-indgen(n) $IDL> y = cumulative_sum(x(i))$; made-function that is order dependent IDL > z = y(i); reverse it again As an additional point, any function enclosed in () becomes a vector, so that the above could have been abbreviated to $IDL > y = (cumulative_sum(x(i)))(i)$ Mind you, ROTATE is pretty fast...... **Fergus** Fergus Gallagher Remote Sensing Applications Development Unit | **British National Space Centre** Monks Wood Huntingdon PE17 2LS / UK

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