Subject: Re: What is like CONGRID, but averages on reduction?
Posted by grunes on Thu, 12 Oct 1995 07:00:00 GMT
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In article <45gi3f$h6o@spool.cs.wisc.edu> Liam Gumley <liamg@ssec.wisc.edu> writes:
>> Subject: What is like CONGRID, but averages on reduction?
>> I need to reduce the size of an array by an arbitrary (non-integral)
>> factor, using an averaging algorithm. Is there such a routine
>> in IDL and/or PV-WAVE?
...

> If it's image display you are most concerned with, then try the TVIM
> procedure from the excellent ESRG user library package. You can get it from
> ftp.crseo.ucsb.edu in pub/idl/esrg_idl_3.2.tar.Z

Thanks, looks interesting. Actually TVIM uses CONGRID, and so would
suffer from the same problem--it will miss dark or bright spots if
the original image is much larger than the averaged down image.

I finally figured out how to do it right--Use REBIN to average it down,
than CONGRID (with nearest neighbor) to expand it to the right size.
Not quite optimal, and a bit slow, but should work fairly well.
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Mitchell R Grunes, grunes@nrlvax.nrl.navy.mil. Opinions are mine alone.