
Subject: Re: Chunk Array Decimation

Posted by [Keflavich](#) on Tue, 18 Nov 2008 15:21:24 GMT

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On Nov 18, 3:52 am, Wox <s...@nomail.com> wrote:

> On Mon, 17 Nov 2008 13:40:45 -0800 (PST), Keflavich

>

> <keflav...@gmail.com> wrote:

>> Does anyone know how to implement this algorithm using a median

>> stack of each pixel instead of simply adding / averaging?

>

> The 'dual histogram loop' approach to drizzling, which you use, loops

> over the index-frequencies and not over the index-values like e.g. the

> 'single histogram' loop does. In the first case, intermediate results

> (partial sums) are calculated each iteration while in the second case,

> final results (total sums) are calculated each iteration.

>

> As far as I know, there is no 'intermediate' median (i.e. the

> equivalent to a partial sum). So maybe the single histogram loop is

> what you need:

>

> data=[1,2,3,4,5]

> inds=[4,4,1,2,1]

>

> mx=max(inds)

> vec3=fltarr(mx+1)

> h=histogram(inds,reverse_indices=ri,OMIN=om)

> for j=0L,n_elements(h)-1 do if ri[j+1] gt ri[j] then \$

> vec3[j+om]=median(data[ri[j]:ri[j+1]-1]))

>

> Does this help?

It does, thanks. That's remarkably simple; I think it's time for me to understand reverse indices on a deeper level.

Adam
