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Subject: Colour Balancing Tiff Images  
Posted by [ian](#) on Thu, 13 Nov 2003 18:41:03 GMT  
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Hi All,

Here's one that I hope you can help me with. I am putting together a mosaic of satellite imagery that consists of orthorectified, black and white tiffs. The problem is that the software I'm using seems to have difficulty colour balancing the tiffs as the mosaic is made, resulting in a mosaic that you can see "cut-lines" in.

We want to avoid this as much as possible, so we have moved to IDL 6.0 on Windows 2000 Pro for a (hopefully) more intelligent colour balancing solution. I have downloaded David Fanning's HISTOMATCH program (thank you, by the way) and I have it up and running on small tiles of the mosaic. The results look very good.

However, I am trying to work with the larger, full images that range from 800MB to 1.2 GB. So, it appears that IDL's memory limitations are going to affect me (the 800 MB tiff won't load into IDL, so my current 1GB of RAM isn't going to cut it).

First of all: am I correct in assuming that the ~1 GB memory limitation is still an issue with IDL? If so, I assume upping the RAM won't really help.

Second: Has anyone faced this kind of problem before? Would tiling my large tiffs work? I suppose I could sum the histograms of my reference tiff and thus create the histogram that I need to match to and then apply it to tiles of the image I want to colour balance. But, if I am balancing individual tiles, am I going to have problems with matching within my large tiff?

Any help would be appreciated. Thanks.  
Ian

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