
Subject: Re: ENVI band math: "b1 gt b2 " , "(b1-b2) gt 0" same or not?

Posted by [rmoss4](#) on Sat, 12 Apr 2003 03:02:08 GMT

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Um, that should have been

$(b1 - b2) \text{ gt } 0 = 1B$ i.e. $(b1 - b2) = -1 = 255B > 0 = 1$

Nevertheless, the point is the same: it is the byte arithmetic that is causing your confusion.

R

Robert Moss wrote:

> That's what it is. Trust me on this. Here's an example:

>

> Take a single pixel in each band, i.e.

>

> b1 = 17B

> b2 = 18B

>

> Remember, these are both bytes.

>

> Then you get

>

> $(b1 \text{ gt } b2) = 0B$

> $(b1 - b2) \text{ gt } 0 = 255B$ $(b1 - b2) = -1 = 255B > 0$

>

> Robert Moss, PhD

>

>

>

> xinhai68 wrote:

>

>> I do not think so. You could try using ENVI's self-contained example

>> bhtnref.img to do "b1 gt b2" and "(b1-b2)gt 0" to see the different

>> result.

>

>
