
Subject: Re: Multiply N bands to N numbers

Posted by [David Fanning](#) on Tue, 12 Jun 2007 16:33:47 GMT

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ali.darvishi@gmail.com writes:

- > am always using ENVI and new with IDL.
- > I have a problem with hyperspectral data multiplication..
- > I want to multiply 200 bands to an ASCII file that contain 200
- > separate number, each for any band.
- > Does anybody know a function in IDL that can Multiply N bands to N
- > numbers at once?.

You might try using the techniques of the Dimensional Juggling
Tutorial:

http://www.dfanning.com/tips/rebin_magic.html

```
IDL> a = IntArr(2, 4, 2)
```

```
IDL> b = [2,4]
```

```
IDL> Print, a
```

```
  0   1   2
  3   4   5
  6   7   8
  9  10  11
```

```
 12  13  14
 15  16  17
 18  19  20
 21  22  23
```

```
IDL> Print, a * Rebin(Reform(b, 1, 1, 2), 3, 4, 2)
```

```
  0   2   4
  6   8  10
 12  14  16
 18  20  22
```

```
 48  52  56
 60  64  68
 72  76  80
 84  88  92
```

Cheers,

David

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