
Subject: Re: Q: Quantil calculation in IDL?

Posted by [Pavel Romashkin](#) on Fri, 15 Oct 1999 07:00:00 GMT

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Am I missing something? Is 75%-quantils not just a value of the sorted array 3/4 of the way through?

```
IDL> a = bindgen(256,256)
IDL> b = sort(a)
IDL> c = n_elements(b)*3/4
IDL> print, (a[b])[c]
192
```

So, 3/4 of all elements in A are less than 192. Sure enough, in this example a median is as easy to get by replacing 3/4 with 1/2, and it is equal to 128.

Cheers,
Pavel

Joerg Mosthaf wrote:

```
> Hi,
> I have been searching the help files and David Fannings great book, but I can't
> find a way to calculate 25%- and 75%-quantils. Unfortunately I don't know the
> english name for this so let me explain: A 75%-quantil is like the median, but
> with 75% instead of 50% i.e. the number in a data spread, that 75% of all
> data points are less or equal to. Is there a way to do this fast on an
> 256x256 array? I need it to cut off noise at a specific level and to get a
> reliable min/max value, not including data spikes. I am probably overlooking
> something very easy, but I just couldn't find it.
>
> Thanks,
> Joerg Mosthaf
```
