
Subject: Re: vector of bin indices using histogram?
Posted by [Paolo Grigis](#) on Wed, 18 Oct 2006 16:27:17 GMT
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Yes, I expect this to depend strongly on the architecture
(all under LINUX or UNIX).

Compare (I had to change the sizes a bit to make the
arrays fit in real memory) these 3 different architectures:

intel pentium 4 (idl 6.2):

```
p=fltarr(5d7)
t=systime(1) & b=p*.5 &print,systime(1)-t
    0.33394289
t=systime(1) & b=p/2. &print,systime(1)-t
    0.82017112
```

Ratio: 2.5

intel xeon dual core (idl 6.3):

```
p=fltarr(1d8)

IDL> t=systime(1) & b=p*0.5 &print,systime(1)-t
    0.50077415
IDL> t=systime(1) & b=p/2. &print,systime(1)-t
    0.61366391
```

Ratio: 1.2

sun sparcs (a bit older, idl 5.4):

```
p=fltarr(1d7)

t=systime(1) & b=p*0.5 &print,systime(1)-t
    0.29103994
t=systime(1) & b=p/2. &print,systime(1)-t
    0.43296313
```

Ratio: 1.5

Ciao,
Paolo

greg michael wrote:

> Yes, you're right - I do have those - thanks.
>
> The second trick is intriguing, but I can't reproduce it:
>
> IDL> p=randomu(0,1e8)
> IDL> t=systime(1) & b=p*.5 &print,systime(1)-t
> 0.56299996
> IDL> t=systime(1) & b=p/2. &print,systime(1)-t
> 0.54699993
> IDL> t=systime(1) & b=p*(1/2.) &print,systime(1)-t
> 0.56299996
>
> Could it be architecture-dependent?
>
> Greg
>
