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Subject: Re: [still wondering] ScatterCtrl: program access to the "Measures" ?  
Posted by [xrysf03](#) on Wed, 13 Nov 2019 22:05:52 GMT

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Hello Koldo,

thanks a lot for that snippet of code, exactly what I was looking for.

Your sketch demonstrates to me something that I guess I've grasped before: the offset and spacing, given via `AddSeries()`, allows you to submit several time series that are not precisely aligned along axis X (= in time, typically).

And, I now finally understand what the "minor" units are.

The Major unit is clear, that is the dotted grid spacing.

The "minor" unit, as given by `SetMinUnits()`, is the offset of the dotted grid from the axis minima, as given by `SetXYMin()`.

(Counter-intuitively to me, this is not a second smaller "axis tick mark" or anything like that.)

For the record, for people who may come later and may be just as lost as I was, I'll attach two screenshots of my app, with comments inscribed. They correspond to the following two snippets of UPP code:

```
Chart1.SetXYMin(min_freq, -90).SetRange(max_freq - min_freq,
90).SetMinUnits(0,0).SetMajorUnits(1000000, 10);
```

```
Chart1.SetXYMin(min_freq, -90).SetRange(max_freq - min_freq,
90).SetMinUnits(100000,5).SetMajorUnits(1000000, 10);
```

And, if I divide the `x0` and `DeltaX` (= parameters to `AddSeries()` ) by a million, the `DeltaX` gets fractional, which is no problem, and I get a display in 3-digit MHz, rather than 9-digit Hz :)  
Good...

Frank

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