
Subject: Re: More LIST weirdness?

Posted by [penteado](#) on Tue, 14 Dec 2010 20:06:55 GMT

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On Dec 14, 5:55 pm, Paul van Delst <paul.vande...@noaa.gov> wrote:

```
> IDL> q = list()
> IDL> help, q
> Q          LIST <ID=1 NELEMENTS=0>
> IDL> help, q[0]
> <Expression>  UNDEFINED = !NULL
> IDL> help, q[1]
> <Expression>  UNDEFINED = !NULL
> IDL> help, q[2]
> <Expression>  UNDEFINED = !NULL
> IDL> x=q[5]
> IDL> help, x
> X          UNDEFINED = !NULL
>
> ??
>
> I was expecting the "index out of range" type of error. Or e.g.
>
> IDL> y=q[*]
> % Illegal subscript range.
> % Error occurred at: LIST::_OVERLOADBRACKETSRIGHTSIDE
> %          $MAIN$
> % Execution halted at: $MAIN$
>
> Now I'm confused. Removing an item causes the "LIST::REMOVE: Index is out of range" error.
Why wouldn't simply accessing
> an invalid index do a similar thing? The behaviour seems inconsistent. Or am I?
```

That did surprise me. I was expecting it to throw an error, just as hash does for an inexistent key. By the way, assigning to an inexistent list element does throw an error, as it should.

So to me there seems to be a bug in hash::remove() and in list::_overloadbracketsrightside(), as both should be throwing errors instead of silently returning !null. The reason is, as I wrote in the other thread, that a list/hash having !null elements is not the same as one having no elements (or just not having the element specified by the index/key) .That is the whole reason for the length argument in list::init(), and hash::init() assigning !null to elements when only keys are passed.
