
Subject: Re: IDL 8.0 compile_opt changes
Posted by [Maarten\[1\]](#) on Thu, 07 Jan 2010 15:27:08 GMT
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On Jan 6, 10:25 pm, mgalloy <mgal...@gmail.com> wrote:

> On 1/6/10 7:01 AM, Maarten wrote:

>

>> I do love the idea of negative indices, although I'd like them to mean
>> the same as in Python. The samples I've seen so far are off by one.

>

> My understanding of the negative indices proposal in IDL was that they
> would be the same as in Python:

>

>>>> a = [1, 2, 3, 4]

>>>> a[-1]

> 4

>>>> a[-2]

> 3

Yes, in this case it is the same. The (subtle) difference comes in for ranges.

Python:

>>> a = [1,2,3,4]

>>> a[-1]

4

>>> a[-2]

3

>>> a[1:-1]

[2, 3]

The last one is the one I'm concerned about, as python does not include the last index in the range.

IDL> a = [1,2,3,4]

IDL> print, a[3]

4

IDL> print, a[1:3]

2

3

4

(index 3 is equivalent to index -1).

Now you could say that Python and IDL already disagree here, but the off-by-one is worth mentioning anyway.

> By the way, this could break old code as well. It also seems like a
> better reason for breaking backward compatibility than the "." as a
> method invocation.

Agreed.

- > And once backwards compatibility is broken, then we
- > might as well make all the changes we need at once (as long as we have a
- > good conversion tool that makes most of the changes automatically).

A conversion tool may not have to go forward. It may be easier to go backward with a tool. Especially since this allows for cleaning up the syntax. It will also prompt users to write code for the newer system, and let a tool worry about backward compatibility (compare to Python 3).

Maarten
