Subject: Re: Bug in operator precedence
Posted by Mark Hadfield on Tue, 16 Aug 2005 22:20:07 GMT
View Forum Message <> Reply to Message

m_schellens@hotmail.com wrote:
> According to the manual, operators
>
> ~ || &&
>
> have lower precedence than
>
> AND OR XOR
>
> Now I get:
> IDL> print, 1 && ~3 and 4
> 0
> IDL> print, 1 && (~3) and 4
> 0
> IDL> print, 1 && ~(3 and 4)
> 1
>
> I would consider this as a bug.

Yes, but I suggest that the best way to fix it is to change the manual. I think "~" logical negation should have similar priority to "not" (bitwise negation) and higher than any of the binary logical operators, ie the "eq"s the "and"s and the "&&"s. Why do I think this? Well...

* Bitwise and logical negation are very similar conceptually
* Unary operators normally outrank binary ones
* Like many people, I don't bother to read the manual unless I really need to, and I have code that relies on what IDL does, not what the manual says it should do.

--
Mark Hadfield "Kei puwaha te tai nei, Hoea tahi tatou"
m.hadfield@niwa.co.nz
National Institute for Water and Atmospheric Research (NIWA)