Subject: Re: pred & succ ?
Posted by Martin Schultz on Mon, 13 Nov 2000 08:00:00 GMT
View Forum Message <> Reply to Message

```
Andrew wrote:
> Dear C.I.i-p,
>
   In Pascal (and probably in other high-level languages,
  but I don't know), there are built-in functions PRED(x)
  & SUCC(x), where x is any ordinal-type variable.
  e.g.: PRED(1)=0
>
      SUCC(2)=3
>
      PRED(TRUE)=FALSE
>
>
 etc., etc.
>
>
   Is there anything like this in IDL?
>
  -- Andrew
> Sent via Deja.com http://www.deja.com/
> Before you buy.
FUNCTION pred, x
 RETURN, x-1
END
FUNCTION succ, x
```

But is that really worth it? You won't be able to construct pred(false) for there is no distinct "false" in IDL. But this is actually a nice little "Denksportaufgabe" (although I am sure you can find a solution on some webpage, too): How do you construct a reliable complement of a variable that represents a boolean? Hints:

- should accept any (numerical) type (ok, maybe not complex ;-)
- variable type should be preserved

RETURN, x+1

END

- 0 is false, everything else true (how about 1.e-30? probably best to define an "eps"); in output, "true" should be 1
- should not be constrained to scalars (IF(...) won't work)

Thanks to RSI for not providing us with a dedicated "logical" or "boolean" type. Otherwise this would be too trivial;-)

Cheers,

Martin