Subject: Re: Mulitple conditionals
Posted by David Fanning on Sat, 07 Feb 2009 12:48:04 GMT
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## Bernhard Reinhardt writes:

- I guess I can not shock you IDL old stagers with this but for an IDL
  newbee like me this seems quite strange:
  IDL> if 1 eq (1 or 2) then print, "true" else print, "false"
  false
  IDL> if "a" eq ("a" or "b") then print, "true" else print, "false"
  true
  Maybe thats the IDL-way of punishing people to addle to type the long
  version:
  IDL> if ("a" eq "a" or "a" eq "b") then print, "true" else print, "false"
  true
  IDL> if (1 eq 1 or 1 eq 2) then print, "true" else print, "false"
  true
- > Can anyone explain the logic behind this behavoir to me?

I've given up "explaining" a great deal of IDL's behavior, but this one is fairly simple. IDL does "bitwise" comparisons between values. So...

```
IDL> print, binary(1 or 2)
0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
IDL> print, binary(1)
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
```

Clearly, these two bit patterns are different, so the answer is "false":

```
IDL> if 1 eq (1 or 2) then print, "true" else print, "false" false
```

I'll leave it to someone else to explain why strings are handled differently. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.dfanning.com/ Sepore ma de ni thui. ("Perhaps thou speakest truth.")