
Subject: Need integer consts eq long not short

Posted by [sgs](#) on Wed, 02 Nov 1994 20:32:03 GMT

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I need pwave to have long (4 byte) constant integers by default rather than short (2 byte). Is there a way to force this behavior with a system variable, or something?

Short integers cause problems like this:

```
for i=0,n do begin ... ; buggy, i is a short integer
for i=0L,n do begin ... ; correct, i is a long integer
```

Pwave creates i as a short integer, because the constant 0 is, by default, short. However, when (long) n is bigger than 32767, the loop only loops to (n mod 32767).

(1) Unfortunately, these loops often produce reasonable, but incorrect answers.

Many of the std/* and user/* routines provided with pwave have this bug. (grep for lines with "for i=0", and any lines with integer constants). (Watch out! They work with your small test case, but fail with your real, large dataset, see (1).)

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