

Re: Same code and different result, Why?

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.language/2008-11/msg00113.html>

- *From:* Tommy <tommy767@xxxxxxxxxx>
 - *Date:* Thu, 06 Nov 2008 06:43:44 -0500
-

Alex Blekhman wrote:

"Lorry Astra" wrote:

Is this related with compiler or CPU architecture? Why?

In addition to Ulrich's answer.

"[39.15] Why do some people think `x = ++y + y++` is bad?"
<http://www.parashift.com/c++-faq-lite/misc-technical-issues.html#faq-39.15>

HTH
Alex

Whats more fascinating is that there compiler differences especially with equivalent CORPORATE languages like FORTRAN.

Personally, sequence point or not, I would view the MS compiler is wrong here for producing results that are illogical to the application developer, again, as noted else where for similar arguments, who are NOT the same pay level to do understand these subtle points. IMV, the OP code is not as obscure as some documented examples provided for sequence points gotchas with 'unrecommended' C construct.

In other words:

```
int x = 36; y = 20;
int t = x++ + y++;
x = t;
```

SHOULD yield the same results as:

```
int x = 36; y = 20;
x = x++ + y++;
```

which in the EYES of the programmer, is simply reusing storage for the final *expected* result by eliminating `t` – a form of "optimization" per se.

Note, I'm not arguing the reality, I just find it – well – NUTS! :-)

Re: Same code and different result, Why?

—
.