

Re: what is happening in C when increment this way?

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.c/2005-01/3465.html

From: CBFalconer (*cbfalconer_at_yahoo.com*)

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puzzlecracker wrote:

```
>
> If you run this program, it will give very unexpected results. Can
> anyone explain the nature of this anomaly? (also what is the function
> call [and library to include linux/windows] to execute 'pause');
>
> #include<stdio.h>
>
> //void pause(){ unsigned long i=0; while(i++<10000000); }
>
> int main(){
> float i;
>
> for(i=0;i<100;i+=0.1) // pay attention
> { // pause();
> printf("%d\n",i);
> }
>
> printf("\n");
> return 0;
>
> }
```

Don't use C99 comments in C90 code. The result:

```
[1] c:\c\junk>gcc junk.c
junk.c:3: parse error before '/' token
junk.c: In function `main':
junk.c:8: parse error before '/' token
junk.c:10: warning: int format, double arg (arg 2)
junk.c: At top level:
junk.c:12: parse error before string constant
junk.c:12: warning: type defaults to `int' in declaration of
`printf'
junk.c:12: warning: conflicting types for built-in function
`printf'
```

comp.lang.c: Re: what is happening in C when increment this way?

junk.c:12: ISO C forbids data definition with no type or storage
class

After removing those excecences we get:

```
[1] c:\c\junk>gcc junk.c
junk.c: In function `main':
junk.c:8: warning: int format, double arg (arg 2)
```

and lying to the compiler about the type of an argument to a
variadic function is undefined behaviour.

There is no "pause" function in standard C.

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the broken "Reply" link at the bottom of the article. Click on
"show options" at the top of the article, then click on the
"Reply" at the bottom of the article headers." - Keith Thompson