

Forum:[Hack Forums](#)

Thread: [TEST Instruction Equivalent in C ?](#)

RobotCrack - February 24, 2017, 7:32 am

In need little bit help !

What PHP Code

<?php

TEST

instruction equivalent in C or Higher level language ?

webdev77 - February 24, 2017, 7:40 am

You don't need the test instruction in higher level languages because there are better ways to write the code. It's a bitwise and operation, so you can implement that if you wish. Truly, there is no direct equivalent to my knowledge, but there are many easy ways to achieve the same result.

RobotCrack - February 24, 2017, 7:55 am

(Feb 24, 2017 08:40 AM)webdev77 Wrote: [\[CITE\]](#) You don't need the test instruction in higher level languages because there are better ways to write the code. It's a bitwise and operation, so you can implement that if you wish. Truly, there is no direct equivalent to my knowledge, but there are many easy ways to achieve the same result.

Thanks. Appreciate it!

Masm4ever - February 24, 2017, 11:25 am

Code include \masm32\include\masm32rt.inc

```
.code
start:
    mov ebx, 15    ; 1+2+4+8
    .if ebx & 4
        print "test 4 succeeded", 13, 10
    .else
        print "test 4 failed", 13, 10
    .endif
    .if ebx & 16
        print "test 16 succeeded", 13, 10
    .else
        print "test 16 failed", 13, 10
    .endif
    inkey "that was easy with Masm32, right?"
    exit
```

end start

Output:

Code test 4 succeeded

test 16 failed

Now the same in C:

Code #include <stdio.h>

#include <conio.h>

```
#pragma comment(linker, "/subsystem:console" )
```

```
int main(void) {  
    int ebx=15;  
    if (ebx & 4)  
        printf("test 4 succeeded\n");  
    else  
        printf("test 4 failed\n");  
  
    if (ebx & 16)  
        printf("test 16 succeeded\n");  
    else  
        printf("test 16 failed\n");  
  
    _getch();  
}
```

Some stupid brackets more but otherwise pretty much the same.

P.S.: If you prefer "pure" assembler, you can use test ebx, 4:

Code test ebx, 4

```
.if !Zero?  
    print "test 4 succeeded", 13, 10  
.else  
    print "test 4 failed", 13, 10  
.endif
```

movsx - February 24, 2017, 1:18 pm

(Feb 24, 2017 08:32 AM)RobotCrack Wrote: [\[CITE\]](#) In need little bit help !

What PHP Code

```
<?php
```

```
TEST
```

instruction equivalent in C or Higher level language ?

You don't need to worry about that, the compiler does.

C is modeled as an 'abstract machine'

electricalengineering - February 25, 2017, 1:43 pm

Test operation:

```
if ( !(me & you) ) //where me and you == 0  
{  
  
}
```

equivalence:

test eax, eax ; where eax is 0.

```
;zf = 1
```

```
je ...
```