

Re: libctiny.lib

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.language/2005-01/0769.html>

From: George Hester (*hesterloli_at_hotmail.com*)

Date: 01/17/05

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I believe my command was to stop libc.lib from being called:

```
cl SimpleCalculator.c /link libctiny.lib /NODEFAULTLIB:libc.lib
```

Isn't that what is happening here? /NODEFAULTLIB:libc.lib

I tried it without trying to stop libc.lib from being called and errored with this:

Tried

```
cl /ML SimpleCalculator.c /link libctiny.lib
```

and

```
cl SimpleCalculator.c /link libctiny.lib libc.lib
```

got

```
libc.lib<crt0.obj) : error LNK2005: _mainCRTStartup already defined in libctiny.lib(CRT0TCON.OBJ)
SimpleCalculator.exe : fatal error LNK1169: one or more multiply defined symbols found
```

so then I tried to stop libc.lib from being called:

Tried:

```
cl SimpleCalculator.c /link libctiny.lib /NODEFAULTLIB:libc.lib
```

got

```
SimpleCalculator.obj : error LNK2001: unresolved external symbol _scanf
SimpleCalculator.obj : error LNK2001: unresolved external symbol _putchar
SimpleCalculator.obj : error LNK2001: unresolved external symbol _fltused
```

So that's why I asked.

Let me try:

```
cl SimpleCalculator.c /link libc.lib libctiny.lib
```

Fine but is 52KB. This is worthless. libc.lib alone gives that.

```
c/ SimpleCalculator.c link libctiny.lib libc.lib
```

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libc.lib< crt0.obj) : error LNK2005: _mainCRTStartup already defined in libctiny.lib(CRT0TCON.OBJ)
SimpleCalculator.exe : fatal error LNK1169: one or more multiply defined symbols found

It doesn't seem to work at all. But thanks anyway.

--

George Hester

"Michael K. O'Neill" <mikeathon2000@nosspam.hotmail.com> wrote in message news:egcjhRD\$EHA.2112@TK

> Here's a quote from the end of the article:

>

> "You might be wondering about the runtime library routines that LIBCTINY
> doesn't implement. For instance, in TEST.CPP, there's a call to strchr.
> There's no problem here because that function exists in the regular LIBC.LIB
> or LIBCMT.LIB that Visual C++ provides. Both LIBCTINY.LIB and LIBC.LIB
> implement a variety of routines. LIBCTINY's list is obviously smaller than
> what LIBC.LIB provides. The important thing for your purposes is that the
> linker finds the LIBCTINY routines first when resolving function calls, and
> so LIBCTINY's routines are what's used. If something isn't implemented in
> LIBCTINY, the linker finds it in LIBC.LIB instead."

>

> It looks like you are linking to libc.lib too, so maybe you need to reverse
> the order of libc.lib and libctiny.lib in the command line

>

> Mike

>

>

>

> "George Hester" <hesterloli@hotmail.com> wrote in message

> news:OHSveW6%23EHA.4072@TK2MSFTNGP10.phx.gbl...

> Please take a look at this page:

>

> <http://msdn.microsoft.com/msdnmag/issues/01/01/hood/default.aspx>

>

> I made his libctiny.lib because I was aghast that this c program:

>

> #define EOF -1

> #define PROMPT ':'

> #define exit return /* UNIX Fix */

> main(){

> float a, b;

> char opr;

> float result;

> while (putchar(PROMPT), scanf("%f%c%f", &a, &opr, &b) != EOF){ /* EOF =

> ctrl-z */

> switch(opr){

> case '+': result = a+b; break;

> case '-': result = a-b; break;

> case '*': result = a*b; break;

> case '/': result = a/b; break;

> default:

> printf("ERROR **** illegal operator\n");

> printf("Legal characters are +, -, * and /;");

> printf(" Try again\n");

> continue;

> }

> printf("result is %g\n", result);

> }

> printf("See ya");

> exit(0);

> }

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```
>  
> was 56KB.  
>  
> But when I tried his libctiny.lib like this:  
>  
> cl /o1 SimpleCalculator.c /link /NODEFAULT:libc.lib libctiny.lib  
>  
> I got three errors:  
>  
> SimpleCalculator.obj : error LNK2001: unresolved external symbol _scanf  
> SimpleCalculator.obj : error LNK2001: unresolved external symbol _putchar  
> SimpleCalculator.obj : error LNK2001: unresolved external symbol _fltused  
>  
> What this tells me is his libctiny.lib is really tiny. So tiny it doesn't  
> have what is necessary for my program. Is  
> that right?  
>  
> --  
> George Hester  
> _____  
>  
>
```