

Re: Socket recv() question?

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.app.development/2007-02/msg00088>.

- *From:* "Paul G. Tobey [eMVP]" <p space tobey no spam AT no instrument no spam DOT com>
 - *Date:* Wed, 21 Feb 2007 11:53:08 -0700
-

And none of us who have been recognized were born that way, but I **never** assume that a problem is Microsoft's before I've been down the road of being 99% sure that it is my fault first. Being sure that making one call out of what, 20 that it takes to do the process you're doing, indicates that the problem belongs to MS is absolutely indefensible. Sorry, it just is. I wasn't saying that there was something wrong with you, just because you're less-experienced. I'm simply saying that the less-experienced you are, the less-certain, not the more-certain, you should be that the problem is from someone else!

Show the code!

Paul T.

"Vin" <Vin@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
<news:52FFCA89-069D-408C-B991-3FCD36EC8FBB@xxxxxxxxxxxxxxxxxxxx>

Paul,

Thanks for the help. But please keep in mind that we are not all Microsoft Certified (eMVP) and that we all not gurus like yourself. We are in the learning curve, so most of the time we might ask stupid questions, but asking questions is the best way to learn.

"Paul G. Tobey [eMVP]" wrote:

Huh? How many different ways are there for transferring a file via the network and writing it to a local file in the filesystem? That's pretty much like saying, "How can my file code be wrong? I'm using WriteFile()."

You might be doing something crazy, writing the data to the file one byte at a time or something. I can't predict, specifically, what you might be doing

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wrong based on the simple statement that your code is slow! Yes, you might be doing the wrong thing with recv() (again, we don't have your code, so expecting us to debug it is crazy), but you might easily be doing something else in the code that receives the data or writes it to the local file which is responsible.

Paul T.

"Vin" <Vin@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:5146C1F9-D9C9-4E5E-AC5F-9AC03B9DF29E@xxxxxxxxxxxxxxxxxxxx

Paul,

That makes a lot of sense. But how can I be at fault if I am using the socket function correctly?

The PC would send the data and Pocket PC would receive it.

I am using recv() in a while loop until bytes received = 0.

I noticed that each time it looped, the received count is 32 kb. that's all.

I guess I am using recv() in a wrong manner.

"Paul G. Tobey [eMVP]" wrote:

You're interpreting "downloading a file" as a single atomic operation.

It's not even close! Use a packet sniffer and see just how many packets that file is split into (if the sniffer will count that high!)

I can't tell you why your code is slow and IE is fast, but my guess would be you, not Windows CE, are at fault. Of course, there are dozens of testing errors that might pop up. IE already has the file in the cache, so

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downloading it does nothing but copy it
from the cache to another
location
in the filesystem, you're writing the file to
flash-based media, while
IE
is
writing it to RAM filesystem (much faster),
etc., etc.

Paul T.

"Vin"

<Vin@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:78506016-31AC-4378-826B-EE27B2956FCB@xxxxxxxxxxxxxxxxxxxx

Thanks Paul,

But here's a question for
you.

How come when I use the
IE on the Pocket PC and
started IIS on my
PC.

On
the Pocket PC I loaded a
home page that would allow
to download the
same
size
file (1.4 mb). When I click
on the link and save the file
to the
pocket
PC,
it took only 5 seconds.

Now, why is that? what
would be the difference
between using http
IIS
and
socket recv();

"Paul G. Tobey [eMVP]"
wrote:

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There's a limited amount of RAM in CE devices. You can't use virtual memory and RAM is limited. It's only going to return you a relatively small amount. For that matter, I seriously doubt that the PC is sending that data in a single packet, either. On the send end, the PC can buffer up a huge amount of data and send it in manageable pieces; you can't reasonably do that on the Pocket PC.

Paul T.

"Richard Plante"
<richard.plante@xxxxxxx>
wrote in message

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news:%23mHteCOVHHA.868@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

0)
Assuming
the
following
variables

```
SOCKET  
s;  
timeval  
timeout;
```

1)
First,
create
a
descriptor

```
fd_set  
fd;
```

2)
Initialize
it

```
fd.fd_array[0]  
=  
s;  
fd.fd_count  
=  
1;
```

3)
Configure
tx
timeout

```
select(0,  
NULL,  
&fd,  
NULL,  
&timeout);
```

4)
Configure
rx
timeout

```
select(0,  
&fd,
```

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```
NULL,  
NULL,  
&timeout);
```

"Vin"

<Vin@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote

in

message

news:001E0DB9-956B-4E2A-B5D9-AB1F49C213DC@x

Hi

Thanks

for

the

advice.

Yes

I

looked

at

the

return

code

and

it

was

normal.

The

most

data

that

I

can

receive

it

32kb

that's

all.

Is

there

something

I

am

doing

wrong?

by

the

way,

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how
do
you
use
the
select
to
change
the
time
out?
I
have
never
done
it
before.
Can
you
send
me
more
info
on
this
or
a
code
snippet?

thanks

"Richard
Plante"
wrote:

Did
you
look
at
the
return
code
when
exiting
your
loop
that
omnly
retrieves

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32Kb
of
data?
It
could
be
a
timeout
problem;
in
that
case
I
would
consider
increasing
the
timeout
using
the
select
method
on
the
socket
descriptor.

"Vin"
<Vin@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
news:1E552903-CD74-485D-8293-C117D

Sorry,
I
am
using
Embedded
visual
c++
4.0
(
NOT
ce
3.0)

thanks

"Vin"
wrote:

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Hi,

I
am
developing
an
application
using
Embedded
visual
c++
(wince
3.0)
using
sockets
to
send
binary
data
from
a
pc
to
Pocket
PC.

The
PC
is
set
to
send
1.4mb
through
the
socket,
but
the
Pocket
PC
is
only
receive
32kb
at
a
time
within
the

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```
while  
loop  
  
for  
example:  
while(moreData)  
{  
moreData  
=  
recv(s,  
buf,  
len,  
0);  
}
```

OK,
is
there
anything
I
can
do
to
improve
this
32kb
of
data
on
the
socket?
Why
so
low?
Is
it
possible
to
increase
it
from
32kb
to
at
least
1mb?

I
am
trying
to

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transfer
some
data
at
least
1.5
mb
from
the
PC
to
the
Pocket
PC.

Is
there
any
other
way
to
achieve
this?

Please
give
me
some
ideas.
Many
thanks

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