
Subject: Re: IDL sockets

Posted by [m.hadfield](#) on Thu, 17 May 2001 04:17:27 GMT

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From: "George Constantinides" <gconstantinides@mhl.nsw.gov.au>

> Has any one used the SOCKET function successfully?

>

> I have tried the Craig Markwardt suggestion from an earlier post without
> any success.

>

>> socket, unit, 'cow.physics.wisc.edu', 80, /get_lun

>> printf, unit, 'GET http://cow.physics.wisc.edu/~craigm/idl/idl.html'

>> text = "

>> while eof(unit) EQ 0 do begin

>> readf, unit, text

>> print, text

>> endwhile

>> free_lun, unit

I hadn't, but I was sufficiently intrigued to give it a go. I substituted a local WWW site for Craig's and tried it out. It worked! Now all I need to do is load the text into a file, open it in a browser, and I can surf the Web with IDL!

I didn't bother trying to connect directly to Craig's site because we are behind a firewall. Are you? If you are, then the HTTP queries have to be sent to your proxy server and formulated a bit differently.

Mark Hadfield

m.hadfield@niwa.cri.nz <http://katipo.niwa.cri.nz/~hadfield>

National Institute for Water and Atmospheric Research

--

Posted from clam.niwa.cri.nz [202.36.29.1]

via Mailgate.ORG Server - <http://www.Mailgate.ORG>

Subject: Re: IDL sockets

Posted by [George Constantinides](#) on Thu, 17 May 2001 06:17:19 GMT

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I tried it on our own web server and I am getting an error response from the server: -ERROR-(501): Gateway function not available, but at least the socket connection has worked.

All I have to do now is undertand Error-501 on our type of web server.

Mark Hadfield wrote:

```
> From: "George Constantinides" <gconstantinides@mhl.nsw.gov.au>
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>
> ---
> Mark Hadfield
> m.hadfield@niwa.cri.nz http://katipo.niwa.cri.nz/~hadfield
> National Institute for Water and Atmospheric Research
```

email: GeorgeC@mhl.nsw.gov.au

URL http://www.mhl.nsw.gov.au

Subject: Re: IDL sockets

Posted by [Kelly Dean](#) on Thu, 17 May 2001 16:58:21 GMT

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Pretty need stuff! I was able to read the idl.htm page. Even text files from another server.

Just wondering - how would you open and display a JPEG from ...

<http://www.emwin.org/rxfiles/G10FDIUS.jpg>

To bad GIF support was removed with IDL 5.4.

Kelly Dean
CSU/CIRA

George Constantinides wrote:

```
> Hi IDLers,  
>  
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>> while eof(unit) EQ 0 do begin  
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> --  
>  
> email: GeorgeC@mhl.nsw.gov.au  
> URL   http://www.mhl.nsw.gov.au
```

Subject: Re: IDL sockets

Posted by [Craig Markwardt](#) on Thu, 17 May 2001 18:04:13 GMT

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It looks like I've gotten myself into a bit of a mess here. It turns out that the code I posted in *not* the official way to operate the HTTP protocol. I think it works because many web servers can act as gateways or redirectors which will essentially execute the protocol for you and return the results. My web site server does this, but some others do not.

I heard from an RSI employee that a library of object classes had been constructed which did simple kinds of network protocols like HTTP and FTP. If this is important to you then you might want to voice your encouragement to RSI now about including this before IDL 5.5 comes out.

As for the question by Kelly Dean about getting images, I think the answer is that the true HTTP protocol permits the return of a content-type descriptor which tells you an image is coming. Apparently this doesn't happen with the simple redirector code I

posted.

Craig

George Constantinides <gconstantinides@mhl.nsw.gov.au> writes:

>
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>> do is load the text into a file, open it in a browser, and I can surf the
>> Web with IDL!

...

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: IDL sockets

Posted by [George Constantinides](#) on Thu, 17 May 2001 23:56:23 GMT

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George wrote:

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Mark wrote:

>>> I didn't bother trying to connect directly to Craig's site because we
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George wrote:

>> I tried it on our own web server and I am getting an error response from
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>> All I have to do now is understand Error-501 on our type of web server.

Craig wrote:

> It looks like I've gotten myself into a bit of a mess here. It turns
> out that the code I posted in **not** the official way to operate the
> HTTP protocol. I think it works because many web servers can act as
> gateways or redirectors which will essentially execute the protocol
> for you and return the results. My web site server does this, but
> some others do not.

I tried the example **again** on our own WEB server, but this time taking
into account the Gateway issues raised earlier and it worked fine. thanks!
I can now possibly use this to access data on the server without needing
the extra layer imposed by dataminer and ODBC support.

IDL V5.5 support for TCPIP protocols would be nice, but it will compete
directly with ION and DataMiner. I hope RSI don't see this as a problem.

email: GeorgeC@mhl.nsw.gov.au
<http://www.mhl.nsw.gov.au>
