Subject: connecting to a server to retrieve data (optimizing) Posted by nunoragil on Sun, 28 Nov 2004 04:57:13 GMT

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Hi listers,

I'm fetching some data from the web with the following routine. This does the trick but it gets very slow, for it reads the data on the server and writes it localy bit by bit in a loop.

Does anyone knows if it is possible to send the request and simply get the entire data in one turn?

If not, can I read the data bit by bit and append it inside a variable instead of first writing it all to the disk in a file and then reading that same file afterwards?

Regards Nuno

END

FUNCTION getCoverage, coverage, xMin, xMax, yMin, yMax, format

```
getRequest='GET /cgi-bin/wcs?REQUEST=GetCoverage&COVERAGE='+coverage+'&a
mp;SERVICE=WCS&'+
'map=wcs.map&BBOX='+xMin+','+yMin+','+xMax+','+yMax+'&am p;FORMAT='+format+
'&CRS=EPSG:4326&RESX=0.00083333&RESY=0.00083333'
  host = 'iceds.ge.ucl.ac.uk'
  port = 80
  SOCKET, unit, host, port, /GET_LUN
  PRINTF, unit, getRequest
  WIDGET_CONTROL, /HOURGLASS
  OPENW,img, 'c:\temp.tif', /GET_LUN
  byte_in = 0B
  WHILE EOF(unit) EQ 0 DO BEGIN
    READU, unit, byte_in
    WRITEU,img,byte in
  ENDWHILE
  FREE_LUN, unit, img
  CLOSE, /ALL
```

RETURN, READ_TIFF ('c:\temp.tif', GEOTIFF = imgGeoTags)

Subject: Re: connecting to a server to retrieve data (optimizing) Posted by nunoragil on Mon, 29 Nov 2004 12:45:55 GMT

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```
andrew.cool@dsto.defence.gov.au (Andrew Cool) wrote in message
news:<c6d70400.0411281810.7b804992@posting.google.com>...
> Craig Markwardt <craigmnet@REMOVEcow.physics.wisc.edu> wrote in message
news:<on8y8mvzv1.fsf@cow.physics.wisc.edu>...
>> nunoragil@yahoo.com (Nuno Gil) writes:
>>
>>
>>> Hi listers.
>>>
>>> I'm fetching some data from the web with the following routine. This
>>> does the trick but it gets very slow, for it reads the data on the
>>> server and writes it locally bit by bit in a loop.
>>> Does anyone knows if it is possible to send the request and simply get
>>> the entire data in one turn?
>>
>> Yes, read a byte array instead of a scalar byte. You choose the size
>> of the array you want to read, and if there is less data available,
>> then IDL will only read that much. The number of bytes read is
>> returned in the TRANSFER COUNT keyword. You can then use that same
>> number to write the data to your file.
>>
>> Craig
 Nuno and Craig,
> I hope you guys have emailed RSI to add your support to the request
  for RSI to introduce an http/ftp client into IDL?
>
 See my recent post under "Support for getting HTTP/FTP clients into IDL"
>
> Cheers,
> Andrew
> DSTO, Adelaide, South Oz
Craid.
I'm having some problems writing the image.
If you try this link it will download a 16-bit signed Integer tiff
image with 2816 KB:
http://iceds.ge.ucl.ac.uk/cgi-bin/wcs?REQUEST=GetCoverage&am
p;COVERAGE=srtm&SERVICE=WCS&map=wcs.map&BBOX=46,
```

X=0.00083333&RESY=0.00083333

-25,47,-24&FORMAT=GEOTIFFINT16&CRS=EPSG:4326&RES

However, if trying to get it via IDL with:
img=INTARR(1200,1200)
READU, in, img
WRITEU,out,img
I can only get a 2813 KB file and cannot open it properly.
1200x1200 are the number of pixels of the image.
By the way, if I declare the array bigger than this (lets say 2001x2001) the READU issues an "End of file encountered" error.

Thank you and regards, Nuno

Subject: Re: connecting to a server to retrieve data (optimizing) Posted by Craig Markwardt on Mon, 29 Nov 2004 23:16:27 GMT View Forum Message <> Reply to Message

nunoragil@yahoo.com (Nuno Gil) writes:

- > Craig.
- > I'm having some problems writing the image.
- > If you try this link it will download a 16-bit signed Integer tiff
- > image with 2816 KB:
- > http://iceds.ge.ucl.ac.uk/cgi-bin/wcs?REQUEST=GetCoverage&am p;COVERAGE=srtm&SERVICE=WCS&map=wcs.map&BBOX=46, -25,47,-24&FORMAT=GEOTIFFINT16&CRS=EPSG:4326&RES X=0.00083333&RESY=0.00083333

>

- > However, if trying to get it via IDL with:
- > img=INTARR(1200,1200)
- > READU, in, img
- > WRITEU,out,img
- > I can only get a 2813 KB file and cannot open it properly.
- > 1200x1200 are the number of pixels of the image.
- > By the way, if I declare the array bigger than this (lets say
- > 2001x2001) the READU issues an "End of file encountered" error.

What if you read the image in smaller chunks instead of reading it all at once?