
Subject: connecting to a server to retrieve data (optimizing)

Posted by [nunoragil](#) on Sun, 28 Nov 2004 04:57:13 GMT

[View Forum Message](#) <> [Reply to Message](#)

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?

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

```
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=0.000833333&RESY=0.000833333'
```

```
    host = 'iced.sge.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)
```

```
END
```

Subject: Re: connecting to a server to retrieve data (optimizing)

Posted by [nunoragil](#) on Mon, 29 Nov 2004 12:45:55 GMT

[View Forum Message](#) <> [Reply to Message](#)

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 intrpduce 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

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&COVERAGE=srtm&SERVICE=WCS&map=wcs.map&BBOX=46,-25,47,-24&FORMAT=GEOTIFFINT16&CRS=EPSG:4326&RESX=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.

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&COVERAGE=srtm&SERVICE=WCS&map=wcs.map&BBOX=46,-25,47,-24&FORMAT=GEOTIFFINT16&CRS=EPSG:4326&RESX=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?

Craig

--

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