
Subject: Re: archived data

Posted by [Vince Hradil](#) on Tue, 05 Jun 2007 17:15:57 GMT

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On Jun 5, 12:12 pm, hradilv <hrad...@yahoo.com> wrote:

> On Jun 3, 10:54 am, Wox <nom...@hotmail.com> wrote:

>

>> Hi All,

>

>> I face the following situation: I'd like to do some online data
>> processing (i.e. during measurements) using IDL. However the data is
>> directly zipped by the acquisition system. Is it possible to read and
>> search (like file_search) in a zip archive without spawning unzip and
>> extract everything? Windows explorer does it, so it must be
>> possible...

>

>> I remember a similar question beeing posted here, but I couldn't find
>> it.

>

>> Thanks

>

> I just threw this together. Your milage may vary:

>

> function byte_to_hex, bytes

>

> nbytes = n_elements(bytes)

>

> hstr = string(bytes, format="(z2.2)")

>

> vform = '(' + strtrim(nbytes,2) + 'A'

> hval = string(reverse(hstr),format=vform)

> val = 0l

> reads, hval, val, format="(z)"

>

> return, val

> end

>

> function zipcontents, fname

>

> endsig = '504b0506'

>

> finfo = file_info(fname)

> fsize = finfo.size

> fdata = bytarr(fsize)

>

> openr, lun, fname, /get_lun

> readu, lun, fdata

> free_lun, lun

```

>
> fcode = '(' + strtrim(fsize,2) + 'z2.2)'
>
> sdata = string(fdata, format=fcode)
>
> fptr = strpos(sdata, endsig) / 2
>
> fptr += 8
> numentries = byte_to_hex( fdata[fptr:fptr+1] )
> fptr += 8
>
> cd_offset = byte_to_hex( fdata[fptr:fptr+3] )
> fptr = cd_offset
>
> contents = strarr(numentries)
>
> for i=0l, numentries-1 do begin
>   fptr += 28
>
>   fnamelen = byte_to_hex( fdata[fptr:fptr+1] )
>   fptr += 2
>
>   extrafieldlen = byte_to_hex( fdata[fptr:fptr+1] )
>   fptr += 2
>
>   fcommentlen = byte_to_hex( fdata[fptr:fptr+1] )
>   fptr += 14
>
>   contents[i] = string(fdata[fptr:fptr+fnamelen-1])
>
>   fptr = fptr + fnamelen + extrafieldlen + fcommentlen
>
> endfor
>
> return, contents
> end

```

Sorry, I meant to include this link: <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>
