Subject: Re: How to build ASCII File
Posted by Paul Van Delst[1] on Tue, 20 Nov 2007 23:42:34 GMT
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Marshad2@gmu.edu wrote:
> On Nov 20, 12:19 pm, Marsh...@gmu.edu wrote:
>> Hi Guys:
>>
>> I tried to make ASCII file for Spectral Response Curves obtained
atftp://asapdata.arc.nasa.gov/MASTER/srf/May_03/however, it is not
>> working. Can someone give suggestions how to build ASCII file for
>> Spectral Response Curves.
>>
>> Best Regards,
>>
>> Arshad
>
> Yes, they are ASCII files containing two columns: one is set of
> wavelengths, and the other the spectral response for that band at each
> of those wavelengths. Each file has a different set of wavelengths.
> What I want to do is take the data from different bands, and compile
> them into one ASCII file, with one wavelength column that contains all
> the wavelengths from any of the 50 spectral response files, and then
> one column for each band, containing the spectral responses at each
> wavelength in the wavelength column. Where a given file does'nt
> include values for some wavelengths, those wavelengths will end with
> values of zero for that band in the big ccompiled ASCII file. This is
> the detail regarding which I need help.

I can't imagine why you'd want to do that, but since I don't know anything about your
application, off the top of my head I would say you should:

1) Read all the files through once to get the minimum and maximum wavelengths.
2) Select a suitable wavelength interval (I assume it's different for every
    file/channel)
3) Create master array to hold SRFs for all wavelengths (for your common grid),
    all channels.
4) Loop over input files i=1,N
    4a) Read channel file #i
    4b) Interpolate SRF data to your common grid
    4c) Slot the result into your master array for the i'th channel
5) Output master array to file.

cheers,

paulv