Subject: COMMON block question Posted by Paul van Delst on Tue, 30 Jan 2001 15:53:46 GMT

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Hey there,

```
I am doing the following in an initialisation function:
```

```
COMMON rtm_transmittance_data, predictor_index, $ transmittance_coefficients
```

IF (result NE SUCCESS) THEN \$
 MESSAGE, 'Error reading transmittance coefficients.', \$
 /NONAME, /NOPRINT

If I run the function I see the following:

```
IDL> print, initialize_rtm()
```

- % Compiled module: COMPUTE_ABSORBER_SPACE.
- % Compiled module: READ_TRANSMITTANCE_COEFFICIENTS.
- % Compiled module: OPEN_COEFFICIENT_FILE.
- % Compiled module: READ_SPECTRAL_COEFFICIENTS.
 1

IDL> common rtm_transmittance_data

IDL> help

% At \$MAIN\$

PREDICTOR_INDEX (RTM_TRANSMITTANCE_DATA)

LONG = Array[6, 142, 3]

TRANSMITTANCE_COEFFICIENTS (RTM_TRANSMITTANCE_DATA)

DOUBLE = Array[6, 301, 142, 3]

Compiled Procedures:

\$MAIN\$

Compiled Functions:

COMPUTE_ABSORBER_SPACE INITIALIZE_RTM OPEN_COEFFICIENT_FILE READ_SPECTRAL_COEFFICIENTS READ_TRANSMITTANCE_COEFFICIENTS

How does IDL go about creating COMMON blocks when the size/type of the common block elements are not known until, in this case, they're read in. Understand I'm coming from Fortran-90 background where I declare everything up front in its own module (sort of like a f77/IDL common block but better). Does IDL simply create pointers to the data elements up front and then fills in the blanks after the data has actually been read in/defined? The documentation doesn't give much info.

Thanks for any insights. All metphysical replies forwarded to DF. :o)

paulv

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Paul van Delst A little learning is a dangerous thing;

CIMSS @ NOAA/NCEP Drink deep, or taste not the Pierian spring; Ph: (301) 763-8000 x7274 There shallow draughts intoxicate the brain,

Fax: (301) 763-8545 And drinking largely sobers us again. Email: pvandelst@ncep.noaa.gov Alexander Pope.