

setup

overhead

tag

```
In[298]:= home = "ert/mercury/analyze/";
   Get["utility modules.m", Path → dirPack];
   stamp1;
   maximum memory: 0.176874 GB
   seed file: /Users/dantopa/Mathematica_files/nb/seed 19_12.nb
   user: dantopa, CPU: Xiuhcoatl, MM v. 12.0.0 for Mac OS X x86
   date: Mar 17, 2020, time: 10:39:04
   nb: /Users/dantopa/Mathematica_files/nb/ert/mercury/analyze/json-01.nb

modules, functions, settings, ...
```

import

json writer

inits

```
In[311]:= tab = "
     file = "firstJSON.txt";
     fname = dirData <> file;
  write JSON file
In[314]:= json = OpenWrite[fname, PageWidth → Infinity];
     Write[json, "user: ", user, ", CPU: ", CPU, ", Mathematica v. ", mmv]
     Write[json, "source: ", dirHome, nb]
     Write[json, date, time]
     Write[json, ""]
     Write[json, "Computation of mean total RCS using Mercury MoM 4.1.12"]
     Write[json, ""]
     Write[json, "{"]
     Write[json, tab, "'Label':'Bonito5000',"]
     Write[json, tab, "'ICONImage':'Bald_Eagle-sm.png',"]
     Write[json, tab, "'description':'Aircraft',"]
     Write[json, tab, "'nominalSpeed':400,"]
     Write[json, tab, "'CIT':2,"]
     Write[json, tab, "'crossSection':["]
     Do[
       Do[
          \sigma = RCS[[v - 2, \alpha + 181]];
          Write[json, tab, "{'Deg':", α, ", 'Freq':", ν, ", 'Val':", σ, "},"];
          , \{v, 3, 30\}];
        , \{\alpha, -180, 180\}];
     Write[json, tab, "]"]
     Write[json, "}"]
     Close[json];
```

clean up file - use JSON delimeters

```
In[332]:= str = Import[fname, "Plaintext"];
     (* remove " *)
     strX = StringReplace[str, FromCharacterCode[34] → ""];
     (* ¹ → "" *)
     strX = StringReplace[strX, "'" → FromCharacterCode[34]];
     (* kill final comma in lieu of ] *)
     pos = Last[StringPosition[strX, ","]];
     strX = StringReplacePart[strX, "", pos];
     Export[fname, strX];
```

end