

DATA Step

Can I produce a report to show the run-time of my SAS Program?

Yes. Treat the SAS LOG as a raw data file and it is quite possible to read in the run time and cpu time data. Although there is a lot of text in a SAS LOG, these two numeric values are always found in the same place.

A short LOG extract may look something like this:

```
394      ;
NOTE: Table MYBIGSASDATA created, with 834847 rows and 2 columns.
395  quit ;
NOTE: PROCEDURE SQL used (Total process time):
      real time           1:20:31.36
      cpu time            15:53.20
```

From which it can be seen that the run time follows the phrase real time and the CPU time follows the phrase cpu time.

Using these as 'triggers' to identify a named position with the INFILE statement. Specify the SCANOVER option on the INFILE statement (actually the default action - but it helps to reinforce the action of reading across multiple lines of the LOG searching for the positional triggers.)

The code might look something like this:

```
filename saslog '\path\to\sas.log' ;

data times ;
  infile saslog scanover ;
  format elapsed
           cpu_time time20.2
           ;
  input @'real time' elapsed :hhmmss20.
        @'cpu time'  cpu_time :hhmmss20.
        @
        ;
  output ;
run ;

title 'SAS LOG analysis' ;
proc report data = times nowd ;
  column n
         elapsed
         cpu_time
         ;
```

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```
define n          /          'Step Count'          ;  
define elapsed    / group sum 'Total Elapsed Time' ;  
define cpu_time   / group sum 'Total CPU Time'      ;  
run ;  
title ;
```

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