Time Formats, and Measuring Time in SAS[1]

Following is an example of using a time format in SAS to read, print, and print data. This example shows how to calculate the difference between time data, and how to interpret the results.

```
* Time.sas, Explore time formats ;
title1 'Time.sas' ;
* The raw data for time1 and time2 are in Military time. ;
data one; input time1 time5. time2 time5. ;
* The difference between time2 and time1 will be in seconds. ;
timediff = time2 - time1 ;
label timediff = 'Diff between Time2 and Time1 in seconds' ;
* You can get the difference in hours by dividing by 60. ;
timedmin = timediff / 60 ;
label timedmin = 'Diff between Time2 and Time1 in minutes' ;
cards ;
 1:00    2:00
12:00  14:00
21:34  22:01
;
proc print label  ;
format time1 time2 time5. ;
proc print ;
run ;
```

```
                          Time.sas

                            Diff between   Diff between
                             Time2 and      Time2 and
                             Time1 in       Time1 in
     Obs     time1    time2   seconds        minutes

      1       1:00     2:00     3600            60
      2      12:00    14:00     7200           120
      3      21:34    22:00     1560            26


        Obs    time1    time2    timediff    timedmin

         1      3600     7200      3600          60
         2     43200    50400      7200         120
         3     77640    79200      1560          26
```

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[1]Prepared by Patty Glynn, University of Washington. 6/1/2002 C:\all\help\helpnew\timesas.wpd