Time Formats, and Measuring Time in SAS

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 timel will be in seconds. ;
timediff = time2 - timel ;
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

<table>
<thead>
<tr>
<th>Obs</th>
<th>time1</th>
<th>time2</th>
<th>timediff</th>
<th>timedmin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3600</td>
<td>7200</td>
<td>3600</td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td>43200</td>
<td>50400</td>
<td>7200</td>
<td>120</td>
</tr>
<tr>
<td>3</td>
<td>77640</td>
<td>79200</td>
<td>1560</td>
<td>26</td>
</tr>
</tbody>
</table>

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