



**HARTFORD AREA SAS® USERS GROUP**

<b>Volume 14, Issue 4</b>	<b>Fourth Quarter, November 2002</b>
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<p>The HASUG Flash is available for reading on the World Wide Web at <a href="http://www.hasug.org">http://www.hasug.org</a> SAS is a registered trademark of SAS Institute Inc. Cary, North Carolina</p>
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## Note from the Chairperson

Albert Lavoie

Bristol-Myers Squibb

We all know that time is a valuable resource for SAS professionals these days. What are the advantages of being involved with Connecticut's local SAS users group, the Hartford Area SAS Users Group (HASUG)? The advantages of participation can be many. For the programmer, perhaps exchanging ideas with other SAS programmers would help with the code that is needed to solve a sticky software problem. For the analyst, perhaps being involved with the HASUG may give some additional insights such as how a SAS application might be designed to solve a business problem. Over the years, many SAS users in the southern New England / NY area have shared much useful technical help and valuable SAS support from local peers.

Consider the fact that HASUG may be the only local users group that is completely free. There are no annual membership dues. There is no charge for the Flash. The quarterly meetings are available to everyone to attend without an entrance fee.

How is this possible? In the background, there is a fairly large network of very talented SAS users who volunteer and donate personal resources to make this organization possible. Area corporations typically provide meeting space, (including the SAS Regional Office in Glastonbury). Members often donate meeting refreshments. Meeting speakers are either volunteers from our own ranks, SAS supplied speakers, or independent SAS experts funded with the NESUG speaker-sharing funds.

Are the speakers and topics pertinent and helpful? Well, a few quarters ago, HASUG sponsored Tony Friebel from Cary, the architect of the new SAS XML engine. Tony provided a brilliant overview of this new tool. Also from Cary, HASUG sponsored Sandy McNeill, SAS Manager of the ODS and Report development team. Sandy gave the audience insights into the future plans that SAS has for PROC REPORT and current ODS enhancements. Where else could we get live access to the SAS product planners and developers?

How can you get involved or help? Contributions

for articles for the quarterly Flash, including SAS tips, short coding solutions and suggestions for future topics are often needed. Hosting a meeting at your employer's site or a public facility (e.g. a library), or donating SAS manuals for an occasional meeting raffle are also appreciated.

A special note of thanks goes to a pair of HASUG angels who anonymously donate the funds to maintain a "spam-free" e-mail distribution service for announcements and the [www.hasug.org](http://www.hasug.org) web site. However, I understand that these angels would welcome the opportunity to shift the financial burden to a "benevolent employer" of one of HASUG Steering Committee members.

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## SUGI28

SAS Users Group International (SUGI) is a non-profit organization that is open to all SAS software users throughout the world. There is no membership fee. SUGI exists to provide a means for SAS software users to exchange ideas, explore ways of using SAS software, and participate in activities of mutual interest.

SUGI28 will be held March 30 - April 2, 2003 in Seattle, Washington. Over 3000 SAS users representing more than 35 countries are expected to gather for 3-1/2 intense days of learning and networking.

Early registration ends February 21. You can save substantially off the SUGI 28 registration fees by taking advantage of the early registration discount. Pre-registration ends March 14. If you miss all the deadlines, just come to the conference and register on-site.

## Why should I attend SUGI?

SUGI attendees have the opportunity to meet and network with SAS users from around the world. Conference activities to attend include invited and contributed papers and posters; random access lunch seminars; birds-of-a-feather sessions (BOFs); hardware and software demonstrations; demo theaters; hands-on workshops; graphics competitions; a training materials and documentation competition; Institute information booths for consulting, training, publications, technical support, quality assurance, and user groups; a consultants' registry; and informal mixers. You also can meet with Institute staff and discuss ideas for future product development.

## HASUG Distribution List

This service is provided free of charge to all subscribers who wish to join the email notification process. In order to sign up for this service you need only point your browser to the HASUG web site, [www.hasug.org](http://www.hasug.org) and click on the icon "sign up for our mailing list". The icon is located below the list of previous newsletters .

When you sign up to be a member in the HASUG.org web site, you will see you have two choices to select which list to join (HASUG Email or SCONSIG). You are able to join either or both Email Lists at the same time by MARKING the CHECK BOXes to the left of each list.

### Select your interests

**HASUG Email**

**SCONSIG**

Both SCONSIG and HASUG share the cost to make this feature available to its respective members, and both lists are separate and independent from each other.

It is your decision to enter as much personal information as you wish to provide. **The only piece of data that is TRULY needed is your correct email address.** Any information you enter will not be displayed nor given out to any party, including the members of the steering committee. The only people who have direct access to the information are the HASUG and SCONSIG list administrators, Michael Davis and Charles Patridge.

The List automatically checks for valid email addresses and if any should become invalid, your membership is cancelled without notice as your email address is no longer valid, hence no way to contact you. If you should change the email address under which you subscribed, please sign up again with your new email address.

Typically an email notice is sent approximately 3 weeks before our next scheduled meeting, as well as a couple of days beforehand to remind people of the date, time and topics to be presented.

## Book Review

### Reading External Data Files Using SAS: Examples Handbook By Michele Burlew

Publication Number: 58369

Approximate Cost: tbd

Available: November, 2002

Reviewed by Karol Katz, Yale University

The title of this book says it all. The examples in this handbook will assist beginning and intermediate SAS programmers to create SAS data sets that accurately represent the raw data files whether the files are simple or complex.

Michele Burlew uses a two column format throughout the book to get her point across. For each example, the left column includes the steps necessary to create a file and provide a description of the code. The right column contains a sample of the raw data file, a printed output of the SAS file and the complete SAS program. The explanation of the code in the left column is aligned with the line of code on the right. This format aids in understanding the steps in each program.

If you wish to learn how a particular feature of the INPUT or INFILE statement is used, a detailed table is provided at the beginning of each chapter tabulating feature by example number. From this you can select examples that include the feature of interest to you in the program code.

This handbook offers solutions for raw files with multiple records on one line, to files with one record on multiple lines and more. Additional topics include operating system specific files, the IMPORT Wizard and accessing files remotely.

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### Editorial and Production Staff:

Editor	Janet Stuelpner
Layout	Karol Katz
Member Lists	Charles Patridge
Web master	Michael Davis
Contributors	Michael Davis Peter Prause Karol Katz Charles Patridge Albert Lavoie

## The HASUG Recruiting Policy

HASUG's primary mission is to provide a forum for SAS professionals to meet and share experiences. HASUG also recognizes that searching for new employment opportunities is a normal activity when professionals meet. Since we depend on our respective employers to support HASUG by providing time for members to attend, prepare presentations, and provide meeting facilities, we do not wish to jeopardize those relationships we have all nurtured.

Therefore, when attending any of our quarterly meetings, we request that all parties engaged in recruiting activities be "professional and discreet", and suggest that such activities be carried outside and after our meetings. Those seeking or offering positions may display materials at a location designated by HASUG at each quarterly meeting. The materials may include resumes, job openings, contract opportunities, business cards, etc. None of the materials may include salary information. All such materials left after the meeting will be discarded. Violators of this policy may be asked to leave the meeting.

For other recruiting opportunities, please see the SAS CONSIG article elsewhere in this newsletter or visit [www.sconsig.com](http://www.sconsig.com).

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## The HASUG Sponsorship Policy

All parties are encouraged and welcome to attend our quarterly HASUG meetings scheduled during the months of February, May, August, and November of each year. Usually these meetings are scheduled the 3rd Thursday from 9:00 am to noon at various locations throughout Connecticut. Past locations have included Hartford, Meriden, Middletown, Norwalk, Glastonbury, Stamford and New Haven. We are always looking for new hosts within the state of Connecticut. If you feel your organization can host a meeting of up to 70 or so people, please contact one of the Steering Committee members.

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**The next HASUG meeting will be held at Thursday, February 20, 2003, 9:00 a.m. to 11:30 a.m. at Oxford Health Plans offices at 48 Monroe Turnpike in Trumbull, CT**

## Calendar of Events

### Future General Meetings and Conferences:

February 20, 2003      Oxford Health Plans  
Trumbull, CT

SAS® Users Group International (SUGI 28)  
March 30-April 2      Seattle, WA

May 15, 2003      The Hartford,  
Hartford, CT

### HASUG Steering Committee Meetings:

November 14, 2002      Immediately after  
HASUG meeting

December 19, 2002      Conference call,  
11:30am-12:30pm

February 20, 2003      Immediately after  
HASUG meeting

March 20, 2003      Conference call,  
11:30am-12:30pm

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## Hyperlinks of Interest

The SAS Consultants Special Interest Group's web site URL has changed. Edit the bookmarks on your favorite Brower to point to:

<http://www.sconsig.com>

Read Past SUGI Proceedings Online at:  
(link supplied by Curtis Smith):

<http://www.sas.com/usergroups/sugi/proceedings/index.html>

Information about the SAS Users Group International (SUGI), including information about the 2003 conference in Seattle can be found at:

<http://www.sas.com/usergroups/sugi/sugi28/index.html>

Links to see webcasts from SUGI 27 in Orlando:

[http://www.sas.com/news/feature/15apr02/sugi\\_webcast.html](http://www.sas.com/news/feature/15apr02/sugi_webcast.html)

SAS OnlineDoc is available from SAS on the World-Wide Web. To register to view SAS OnlineDoc on the web, register at the following URL: <http://www.sas.com/v8doc>

Some of the papers and other handouts distributed at recent HASUG meetings can be found at the following two web sites:

<http://www.hasug.org>

<http://www.bassettconsulting.com>

**Continuing With Education...**  
**Peter Prause, The Hartford**

Local SAS training is available at Destiny Corporation, of Wethersfield, CT. Below is a list of their scheduled classes through June 2003. You can reach Destiny at 1-800-787-2464, at 860-721-1684 or send email to [info@destinycorp.com](mailto:info@destinycorp.com). You can visit their web site at [www.destinycorp.com](http://www.destinycorp.com).

Changes & Enhancements to Version 9.....	Dec 9 - 10
Programming I: SAS Essentials.....	Jan 13 – 15
Macros in SAS Software.....	Jan 27 – 29
Programming II: Data Manipulation Using the Data Step.....	Feb 10 – 12
SQL Processing with SAS Software.....	Feb 17 – 18
Changes & Enhancements to Version 9.....	Feb 24 – 25
Programming III: Advanced Techniques.....	Mar 3 – 5
Enterprise Guide Software Introduction.....	Mar 10 – 11
Output Delivery Service.....	Mar 24
Advanced Output Delivery Service.....	Mar 25
Programming I: SAS Essentials.....	Apr 7 – 9
SQL Processing with SAS Software.....	Apr 14 – 15
Programming IV: Optimizing Programs in SAS Software.....	Apr 28 – 29
Programming II: Data Manipulation Using the Data Step.....	May 5 – 7
Enterprise Guide Software Introduction.....	May 19 – 20
Advanced Macros.....	May 26 – 27
Macros in SAS Software.....	Jun 9 - 11
Output Delivery Service.....	Jun 23
Version 8 Changes and Enhancements.....	Jun 24 – 24

The SAS Institute Regional Training Center in Glastonbury, CT. is offering the courses listed below through June 2003. Course information for these courses and many other non-local courses is available on the Internet at the SAS web site [www.sas.com](http://www.sas.com). To register for a course or to get more information, phone SAS Institute at 1-800-333-7660.

SQL Processing with the SAS System.....	Dec 18 – 19
Introduction to Programming Concepts Using SAS Software.....	Jan 23 – 24
SAS Programming I: Essentials.....	Jan 28 – 30
SAS Programming II: Manipulating Data with the DATA Step.....	Feb 4 – 6
SAS Programming III: Advanced Techniques.....	Feb 19 – 20
SAS Macro Language.....	Feb 27 – 28
Accomplishing Tasks in SAS Using Enterprise Guide Software.....	Mar 5 – 6
Optimizing SAS Programs.....	Mar 19 – 20
SAS Programming I: Essentials.....	Mar 25 – 27
SAS Report Writing: A Programming Approach.....	Apr 9 – 10
Introduction to Programming Concepts Using SAS Software.....	Apr 24 – 25
SAS Programming II: Manipulating Data with the DATA Step.....	Apr 29 – May 1
SAS Programming I: Essentials.....	May 20 – 22
SAS Macro Language.....	May 28 – 29
SAS Programming II: Manipulating Data with the DATA Step.....	Jun 4 – 6
SQL Processing with the SAS System.....	Jun 25 – 26

Please visit the Destiny and SAS Institute web sites for the latest information.

**NESUG 2002  
Buffalo, NY  
Sept 29-Oct 2, 2002**

**Karol Katz**

The 2002 Northeast SAS Users Group (NESUG) conference went west to Buffalo, NY. Michael Mace and Chris Roper, conference co-chairs planned carefully and paid attention to details. This was evident in all aspects of the conference from Registration to the Closing session. Though there were fewer attendees this year, the quality of the papers, and especially posters, was excellent. It was difficult, sometimes, to decide which concurrent paper presentation to attend. Fortunately all the papers are available in the Proceedings (book or CD).

The complimentary continental breakfast, mid-morning and mid-afternoon breaks provided an opportunity to network with SAS users or consider new SAS opportunities. There were several evening get togethers that provided an additional time to unwind and speak with other professionals in various industries.

The SAS Institute Demo room was staffed with developers and specialists and provided on line demonstrations of the newest features in SAS including Version 9.0. The Futures Forum was well attended and included Institute panelists and concluded with a Q&A session. This gave conference attendees a chance to pose questions and requests directly to SAS developers.

Planned optional events included a visit to Niagra Falls and an opportunity to view the falls from both Canada and the US. The evening events included a buffet dinner and an IMAX movie about successful and unsuccessful attempts to survive a trip over the falls.

Canada was well represented at the conference, since the Ontario/NY border is close to Buffalo. Their team, the "EH" team, was runner up in the SAS Bowl, a Jeopardy-like game with SAS only questions. The all female SASsters team was victorious again this year. The attendee party followed the SAS Bowl and included great food, drinks, music and camaraderie.

I enjoyed participating in the conference as a session coordinator. The section chairpersons

count on the session coordinators to handle the lights, introductions or to time the speakers. This helps the program stay on schedule and frees the section chair(s) to handle any problems or issues that might arise during a presentation.

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**Consultants' Special Interest Group (SCONSIG)**

The SAS Consultants' Special Interest Group (SCONSIG) operates and maintains a web site located at [www.sconsig.com](http://www.sconsig.com). This site lists employment opportunities, contracts, vitas, resumes, and companies seeking SAS professional talent. It is updated weekly. You are encouraged to visit that web site or to contact Charles Patridge. E-mail:

[Charles\\_S\\_Patridge@prodigy.net](mailto:Charles_S_Patridge@prodigy.net)

for further information.

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**Tips and Techniques from SCONSIG**

**Disclaimer:**

"Each tip included here addresses a problem, and presents a use of one or more SAS concepts. Use it to stimulate your thinking and help you on your way to solving your own problem. Some tips may or may not work in your environment or with your version of the SAS Software, and you should use these tips with this in mind. Neither HASUG nor contributing Author (s) should be held responsible for any direct and/or indirect damage to you or your applications from using these free tips."

**SAS, SAS/ACCESS, SAS/CONNECT, SAS/FSP, SAS/GRAPH, SAS/IntrNet, and SAS/STAT are registered trademarks of SAS Institute Inc., Cary, North Carolina**

**TIPS IN BLUE ARE IN THIS NEWSLETTER, ALL TIPS CAN BE LOCATED ON WWW.SCONSIG.COM**

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Access and Manipulate SAS Data from Other Programs Using ADO Objects

This sample from our Enterprise Integration Community provides the code and step-by-step instructions for using ADO objects to communicate with a SAS IOM Server. It illustrates how a program that is not a SAS application can access and manipulate data on a local SAS server.

**This sample uses ADO object to communicate with a SAS IOM Server. It illustrates how a program that is not a SAS application can access and manipulate data on a local SAS server. The program creates a SAS workspace (session) and then submits a SAS DATA step to create a SAS data set. The program then modifies the data using an ADO Recordset. The resulting data set displays in a MSFlexGrid control**

Read more at <http://www.sas.com/rnd/eai/samples/adoiom/index.html>

Bits & Bytes: Hey, Who Changed My Data? Audit Trails in SAS

With Version 8, SAS added integrity constraints and audit trails. While integrity constraints are useful for reducing invalid data, audit trails allow you to see what changes your users are making (or attempting to make) to data.

**They can also prevent you from losing valuable information when observations are deleted or updated. Columnist Melinda Thielbar demonstrates the features of SAS audit trails with examples of how to use them for data exploration and reporting.**

Read more at [http://www.sas.com/service/techtips/bitsandbytes/0208\\_audit.html](http://www.sas.com/service/techtips/bitsandbytes/0208_audit.html)

**[TIP00343](#) – A Macro to graph any number of SAS variables within a specific SAS dataset using the defaults of GPLOT by Charles Patridge**

**TIP00342 Vehicle Identification Number (VIN) - Meaning/Intpretation - Web Resources by William W. Viergever**

**TIP00341 - SAS V8 Treasures - An Example of using Multilabel Option in Proc Format SAS V8.2 to generate multi-level summaries/statistics - by Charles Patridge (HASUG 8/15/2002)**

**TIP00340 - SAS V8 Sunken Treasure (GOTCHAs) - MERGE, SET, UPDATE, RETAIN - by Charles Patridge (HASUG 8/15/2002)**

**TIP00339 - SAS V8 Sunken Treasure (GOTCHAs) - Proc Transpose or Proc Contents - by Charles Patridge (HASUG 8/15/2002)**

**TIP00338 - SAS V8 Sunken Treasure (GOTCHAs) - Using AutoCall Macro Libraries and changing Paths - by Charles Patridge (HASUG 8/15/2002)**

**TIP00337 - SAS V8 Sunken Treasure (GOTCHAs) - SAS V8 changes how data is Stored in Datasets - by Charles Patridge (HASUG 8/15/2002)**

S N - 0 0 7 9 9 0  
DOS find command might not work as an X command or %sysexec call

<http://www.sas.com/service/techsup/unotes/SN/007/007990.html>

N-001373 SAS/Access Version 6 incompatibility issues (RANDOM access) with SAS V7 and V8

<http://www.sas.com/service/techsup/unotes/SN/001/001373.html>

SN-004021 TRANSPPOSE fails when output data set becomes too wide

**When PROC TRANSPPOSE is used on a SAS data set whose transposition would result in an output data set greater than 32,767 variables, the following error occurs.**

**ERROR: A bug in SAS has been encountered. Please call your SAS representative and report the following message: ZVMPINI: couldn't allocate -xxx (xmsize) (where xxx is a number)**

**Since SAS data sets cannot contain more than 32,767 variables, the data set being transposed needs to be limited with OBS or WHERE processing or the code logic needs to be reconsidered.**

Quick Tip: Avoiding Problems Related to Sorting - By Kirk Paul Lafler, Software Intelligence Corporation

<http://www.sas.com/service/techtips/quicktips/0207sort.html>

Quick Tip: Using ODS Output Data Sets instead of C O N T E N T S O U T =  
By SAS Institute

<http://www.sas.com/service/techtips/quicktips/0206contents.html>

**TIP00336 - How to close the Output window by using a display manager (dm) command by SAS Institute**

**TIP00335 - Tutorial: Using DDE to collate a number of RTF-files and/or Word documents by Kilo Volt**

### A Sorting Tip by Kirk Lafler

Building Drill-down SAS Applications by Kirk Lafler

Andy Ratcliffe publishes an email newsletter for SAS(r) practitioners. It is called NOTE:, and it contains hints, tips, and experience that are of interest to a wide range of SAS practitioners. NOTE: is published on an irregular basis and is free. Note: can be read at [http://www.ratcliffe.co.uk/note\\_colon TIP00334](http://www.ratcliffe.co.uk/note_colon_TIP00334) - Automate Running of a SAS Program on Windows NT by Richard Simhon SN-006850 DEBUG=DBMS\_SELECT returns the SELECT clause passed to a relational DBMS <http://www.sas.com/service/techsup/unotes/SN/006/006850.html>

SN-007384 Using a colon (:) with comparison operators

<http://www.sas.com/service/techsup/unotes/SN/007/007384.html>

SN-007640 - How to determine which SAS products are installed on a Windows system

<http://www.sas.com/service/techsup/unotes/SN/007/007640.html>

/\*\* TIP 00334 \*\*/

#### Automatic running of SAS program

Daily I receive many raw data files from Data Center at midnight, on the next day I have to run the same programs to read this data into SAS and produce some standard reports. This routine work takes from me more than two hours daily. I am using Windows NT as operating system .

My question is the following: While I'm away from my office, is there a way that SAS recognise automatically if the data is received or not? and Run automatically the same programs which I have to run manually every day ?

Author: Richard Simhon  
Email: [Richard.Simhon@CORNHILL.CO.UK](mailto:Richard.Simhon@CORNHILL.CO.UK)  
Subject: Re: Automatic running of SAS program

Yes there is. I use to receive data files overnight. What I did was to get SAS to check the directory for when the files were received and then to process accord-

ingly to produce the reports ready for when I came in the morning. If the file were late for some reason, SAS would go back to "Sleep" for a pre-set number of minutes and then test the directory.

Here is the code.  
I hope this helps

```
%macro test ;
%let i=0;
%do %while (&i=0);
%if %sysfunc(fileexist("J:\N_drive\aa.txt"))
%then
%do;
%include "g:\richard\sas\sas_code\daily\renamelaasas";
%files;
data _null_;
%let i=1;
run;
%end;
%else
%do;
data _null_;
%put file =====>> J:\N_drive\aa\aa.txt has not been recieved
<<=====;
x=%sysfunc(sleep(1*60));
run;
%end;
%end;
%mend;
```

/\*\* end of tip 00334 \*\*/

/\*\* TIP00343 \*\*/

/\*\* \*\*\*\*\* \*\*/

/\*\* GRAPH.sas \*\*/

/\*\* \*\*/

/\*\* A Macro to graph any number of SAS variables within a specific SAS dataset using the defaults of GPLOT. \*\*/

/\*\* \*\*/

/\*\* Parameters of Macro GRAPH \*\*/

/\*\* \*\*/

/\*\* 1st Parameter - list of SAS Variables to be graphed, each SAS variable needs to be enclosed within Double Quotes to produce an OVERLAY GRAPH - that is, all variables will be on 1 graph. \*\*/

/\*\* \*\*/

/\*\* 2nd Parameter - Multiplication Factor for each SAS Var to be graphed - to change the

(Continued on page 9)

(Continued from page 8)

sign or change the minimum/maximum value  
so range could be smaller \*\*\*/

\*\*\*/

\*\*\* 3rd Parameter - additional graphing op-  
tions, such as a vertical reference line, en-  
closed within double quotes.

\*\*\*/

\*\*\*/

\*\*\* To Loop through the SAS Dataset to  
graph each Business Unit (CUSTSEG) and  
create a FRAME BASED HTML Presentation  
of GPLOT Lined graphs using ODS. \*\*\*/

\*\*\*/

\*\*\*\*\*/

filename odsout 'c:\download\graphgaap  
\output' ;  
libname baton "\\higaroct00m001\cpmfe  
\warehse";  
OPTIONS MAUTOSOURCE SOURCE SOUR-  
CE2;

%global selvars numlist;

%macro graph( selvars, mfact, grafopt );

\*\*\* remove double quotes of 3rd parameter  
\*\*\*/

%let grafopt = %sysfunc(compress  
(&grafopt, ""));

%let selvars = %upcase( &selvars );

\*\*\* determine number of SAS Variables to be  
graphed \*\*\*/

%let numlist = %eval(1 + %length(&mfact)-  
(%length(%sysfunc(compress(&mfact, ' '))));

\*\*\* macro to generate the list of SAS Variable  
Names \*\*\*/

%macro genlist (mvar);

%do vv = 1 %to &numlist;

&mvar&vv

%end;

%mend genlist;

\*\*\* generate list of global variable names \*\*\*/

%global %genlist (lvar ) ;;;

\*\*\* get list of SAS variables to be graphed  
Names of SAS variables are records - after  
they were transposed \*\*\*/

data graph;

set baton.gaap (

where = ( upcase(\_name\_) in

( &selvars ))

drop=sort order

);

\*\*\* select certain Customer Segments \*\*\*/

run;

proc sort data=graph out=graph; by cust-  
seg loblab; run;

\*\*\* transpose dataset so Columns become  
rows - now CUSTSEG is a record \*\*\*/

proc transpose data=graph out=tranpose;  
by custseg loblab;  
var mnjan01--mndec04;  
run;

data graph (drop=\_name\_);  
length custseg \$ 3. ;  
length caldate 8. ;  
set tranpose;

\*\*\* convert sas date variables into date val-  
ues \*\*\*/

\_name\_ = tranwrd( \_name\_, 'MN', '01' );  
caldate = input ( \_name\_, date.);  
format caldate monyy7.;

\*\*\* multiple SAS variable by Multiplication  
Factor and assign to Global Variable \*\*\*/

%do ii = 1 %to &numlist;

%scan(%sysfunc(compress(&selvars,  
"")), &ii, ' ') =

%scan(%sysfunc(compress(&selvars,  
"")), &ii, ' ') \*

%scan(&mfact, &ii, ' ') ;;;

%global lvar&ii ;

%let lvar&ii = %scan(%sysfunc  
(compress(&selvars, "")), &ii, ' ') ;

%end;

run;

\*\*\* end of getting the data \*\*\*/

ods listing close;

goptions transparency device=gif noborder  
hpos=150 vpos=40 goutmode=replace xpix-  
els=1000 ypixels=700;

/\* open ODS HTML files \*/

ods html

body='graph.htm'

frame='frame.htm'

contents='contents.htm'

page='page.htm'

path=odsout ;

footnote2 j=1 ' Source=CPM Nightly GAAP -  
Planning'

j=r "as of &sysdate " ;

(Continued on page 10)

(Continued from page 9)

```

Title1 "Nightly GAAP Run Results";
%macro dograph;
/** set graph symbol to be a LINE ***/
  %do xx = 1 %to &numlist ;
    symbol&xx interpol=join height=1
value=dot;
  %end;

proc gplot data=graph;
  by custseg loblab;
/** now create PLOT of SAS Variables onto 1
graph (OVERLAY) ***/
/** make a Vertical line at JULY 2002 - begin-
ning of Forecast Period ***/
plot
  %do kk = 1 %to &numlist ;
    &&lvar&kk * caldate
  %end;
/ overlay href='01jul2002'd
  hminor=2 vref = 0 frame lhref=2 legend

```

```

&graftop  ;;
format caldate monyy7.;
run;
%mend dograph;

%dograph;
ods html close;
%mend graph;

/** end of tip 00343 ***/
/** Sample Calls to Graph ***/ *** %graph
( "I_01" "I_03" "I_04", -1 -1 +1 );
/** when doing Ratios, make a line at Y value
100 ***/
*** %graph( "R_12" "R_01" "R_07" "R_09", +1
+1 +1 +1, "vref=100 lvref=2" );
%graph( "I_01_W01" "C_01_A", -1 -1 );
(example of output is located on web site
linked at end of tip 00343 ).

```

## HASUG STEERING COMMITTEE

Name	Organization	Telephone	E-Mail
James Alling	Bristol-Myers Squibb	(860) 447-2253	jtalling2001@yahoo.com
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