

Shouldn't Clinical Reporting Be EZ

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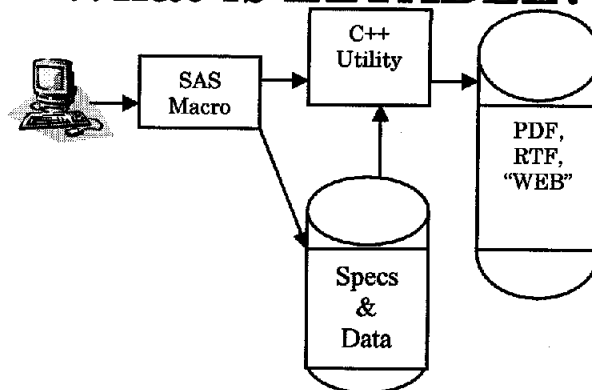
Overview

- Have you ever said to yourself – "Sure would be nice if SAS could do a given task"?
- Wouldn't it be nice to have an integrated set of tools that enhance the power of SAS?
- At Pharmacia we have developed an integrated set of tools which enhance the power of SAS and provide a common approach to:
 - Collect user specifications
 - Create an analysis data base
 - Auto generate SAS code to produce analysis displays and graphics.
 - Schedule tasks
 - Create integrated analysis
 - Create Item 11 Define.pdfs

Introduction

- I will give you a high level overview of the analysis display tool, EZTABLE by a discussing its functionality.
- EZTABLE is a combination of SAS and C++ that runs in the HP-Unix environment.
- The EZTABLE software is not for sale. By sharing our experience we hope to show the adaptability and ability to enhance the power of SAS software and put a "bug" in SAS ear as well as yours for possible future enhancements.

What is EZTABLE?



The SAS Macro is the interface for the tool set and it does any data manipulation and data formatting creating a specification and data file.

The SAS Macro then calls the C++ Utility which reads the specification and data file created by the SAS Macro and creates the output.

Why EZTABLE

Many of EZTABLE feature have facilitated a Pharmacia solution to Clinical Reporting needs such as:

- One syntax to train, learn, provide support for, and build integrated tools around.
- The ability to create FDA define.pdf files.
- The ability to fit "a lot" of data in a readable format on a page using the multi-panel display or the stacking of variables.
- The need for a report index on huge listings.

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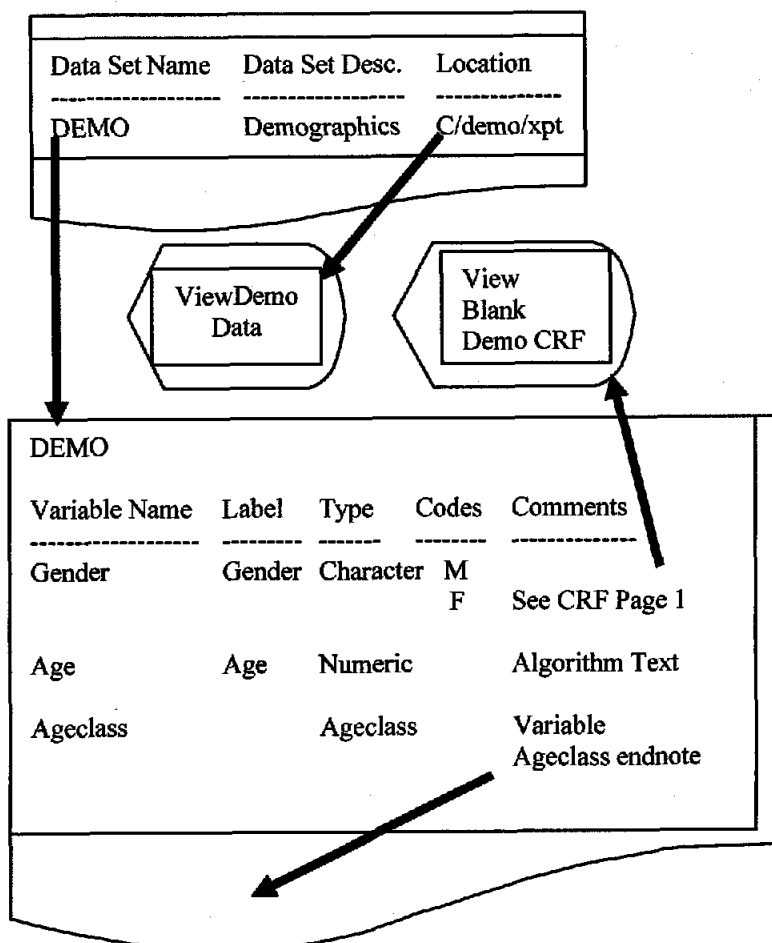
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- The ability to insure that like data doesn't split across pages with NOORPHAN.
- The ability to format and use conditional footnotes for displaying footnotes only as needed as in when a lab assay is flagged.
- The ability to use bookmarks to navigate within a document to like or drill down data. The ability to use end notes and bookmarks or hyperlinks for when a particular cell would over fill its boundaries such as is long verbatims.

- Debug mode

EZTABLE EXAMPLES (More Shown at Presentation)

FDA Item 11 Define.PDF



EZTABLE Features

- Multiple Output Formats
- Index, Indextable
- Book marks
- LINELIMIT = #, ENDNOTETEXT=
- Hyperlinks
- STACK, PREFIX, SUFFIX
- Multi-panel displays, ID
- Descending Columnar displays*
- Table & Define Statement
- Spanned Header
- Block Header in Data*
- Watermarks
- Noorphan
- Page Continuation
- Data Split Character
- Justification, Compound Justification
- @VAR@ replacement
- NOREPEAT
- DOMAINORDER
- Footnote Formatting
- Conditional footnotes*
- Output Properties

```
%eztable (
proc eztable data=body debug=NO out=define index;
tocnum="1.1.1";
toctext="TOC text";
splitchar="~";
justify=center;
lines=ALL;
indexlines=ALL;
spanhead="Dataset: @tabname@.xpt";
pageby tabname;
idxtitle1 "Data definition TOC for Protocol &prot.";
idxtable tabname tabdesc tabloc;
ezconfig / orientation="p" outputformat="PDF"
papertype="Letter"
fontname="Helvetica-Narrow" fontsize=10
doctitle="This is the doc title"
```

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```
leftmargin="1.0" rightmargin=".8" topmargin="1.0"
bottommargin=".8";
title1 "define.pdf for Protocol &prot";
table colname label type algor;
define tabname / width=10 justify=left label="Dataset"
bookmark1 hyperlink;
define tabdesc / width=45 justify=left label="Description of
Dataset" ;
define tabloc / width=22 justify=left label="Location of
Dataset" hyperlink;
define colname / width=9 justify=left label="Variable";
define label / width=20 justify=left label="Label";
define type / width=7 justify=left label="Type";
define algor / width=48 justify=left label="Comments"
endnotetext="Variable @colname@ EndNote" datasplitchar="~"
hyperlink linelimit=15;
run;
);
```

Stacking Example

```
Table var1 var2 var3 var4;
Define var1 / label="Variable 1" ;
Define var2 / label="Variable 2" ;
Define var3 / label="Variable 3" suffix=")" Stack
prefix="(";
Define var4 / label="Variable 4" stack prefix="(("
suffix=")"))";
```

Variable 1	Variable 2 (Variable 3) ((Variable 4))
Variable 1 value	Variable 2 value (Variable 3 value) ((Variable 4 value)

Spanhead Example

SPANHEAD= "text string and
embedded variables such as: @var1@"
/ BOX= YES | NO
JUSTIFY= CENTER | RIGHT |
LEFT; OPTIONAL

This is an example of a wrapped spanned header			
In v.	Pa t	Age	Sex
11 1	1	40	M
	2	20	F

Conclusion

- EZTABLE provides clinical reports via a common syntax resulting in a common appearance and functionality.
- EZTABLE enhances SAS
- Since the initial version of EZTABLE over eight years ago SAS has continued to add features that where once only available in EZTABLE. We hope SAS continues to provide new features that are in EZTABLE and that enhance Clinical Output programming.

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