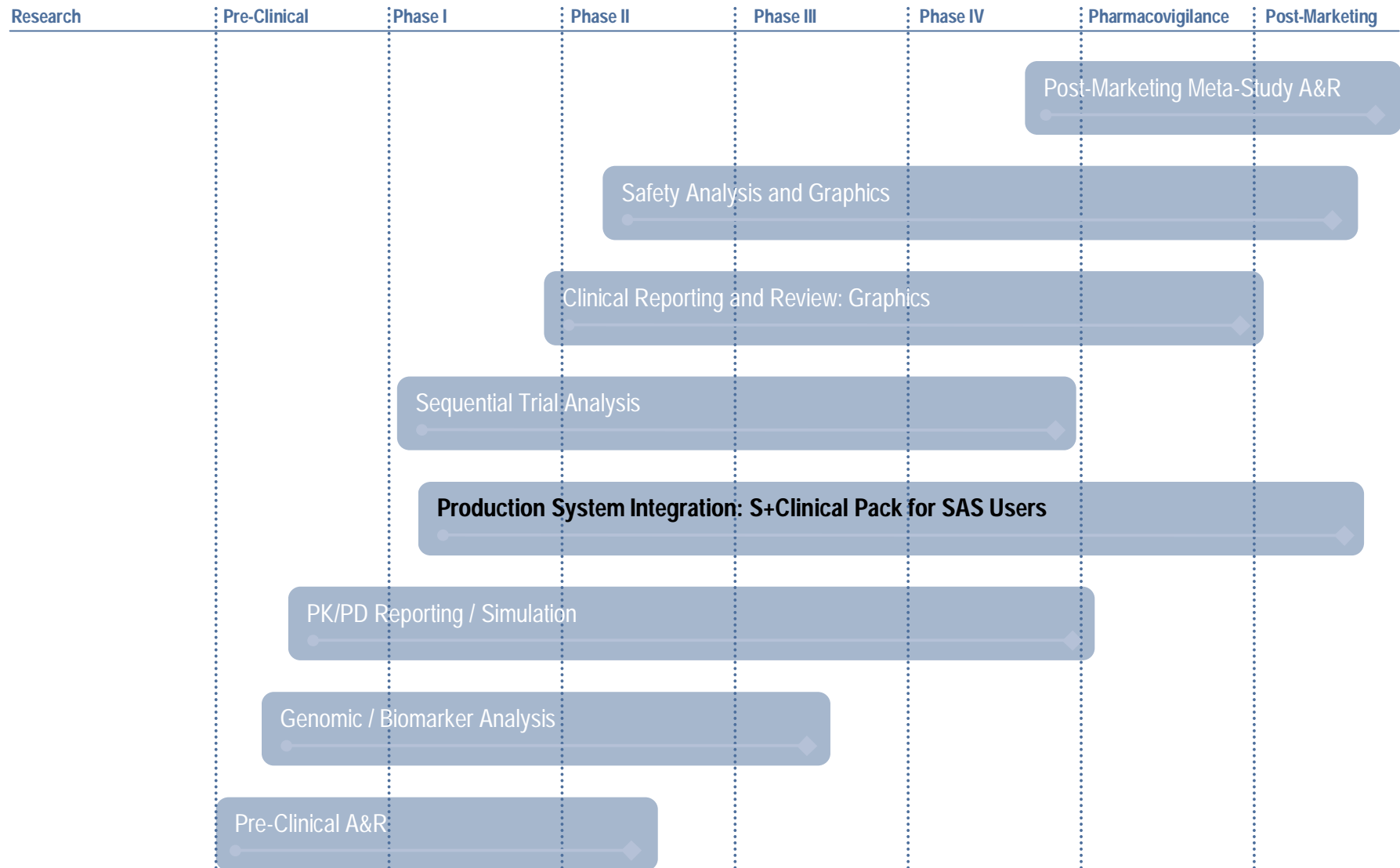


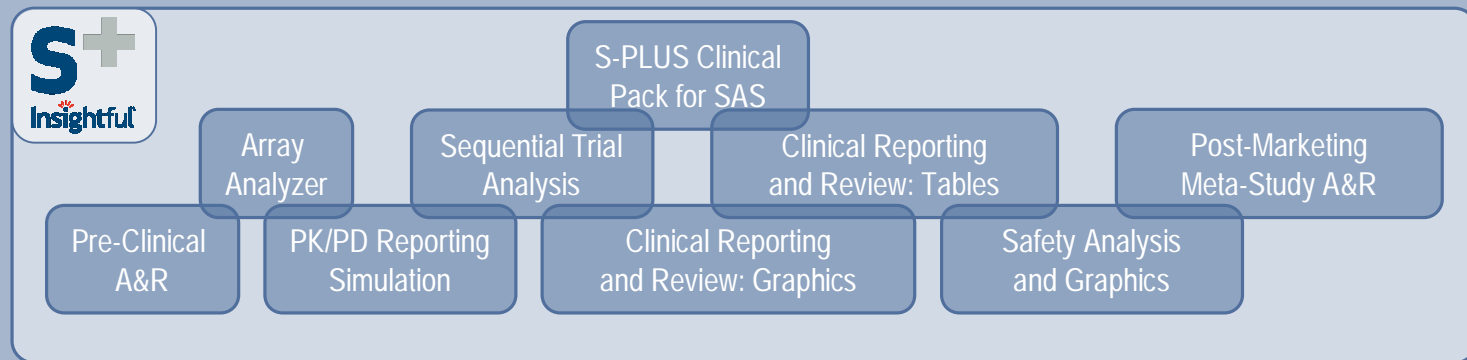
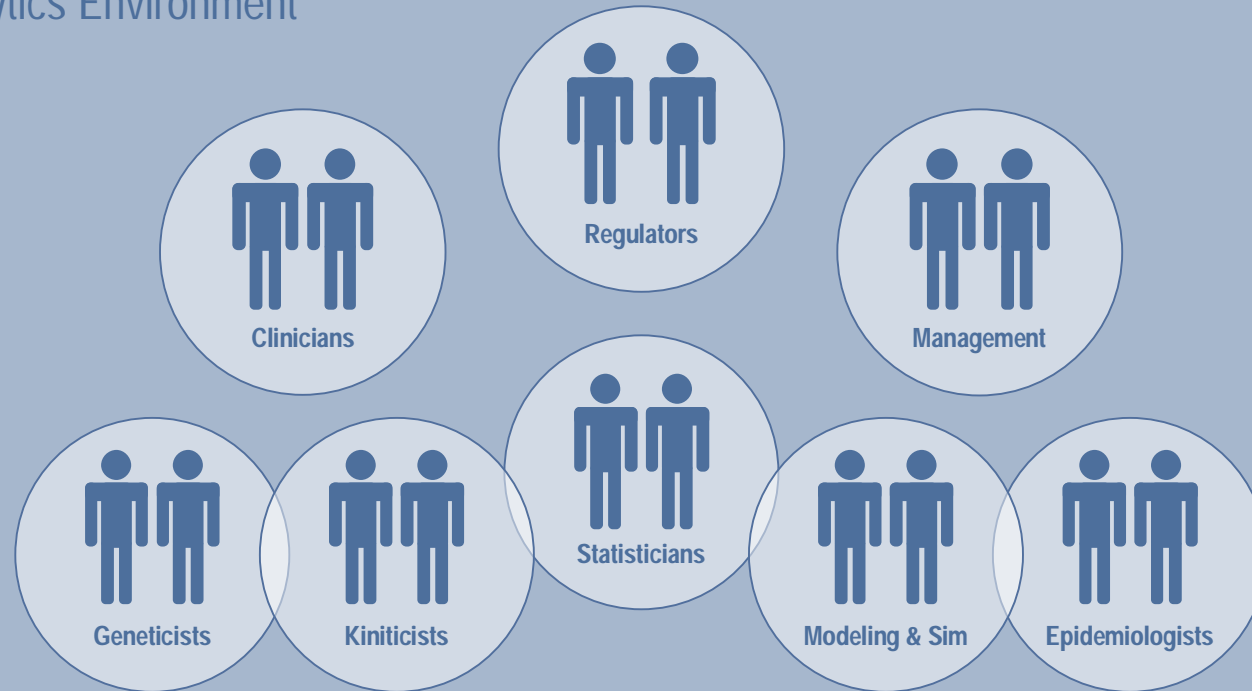


S-PLUS Clinical Pack for SAS

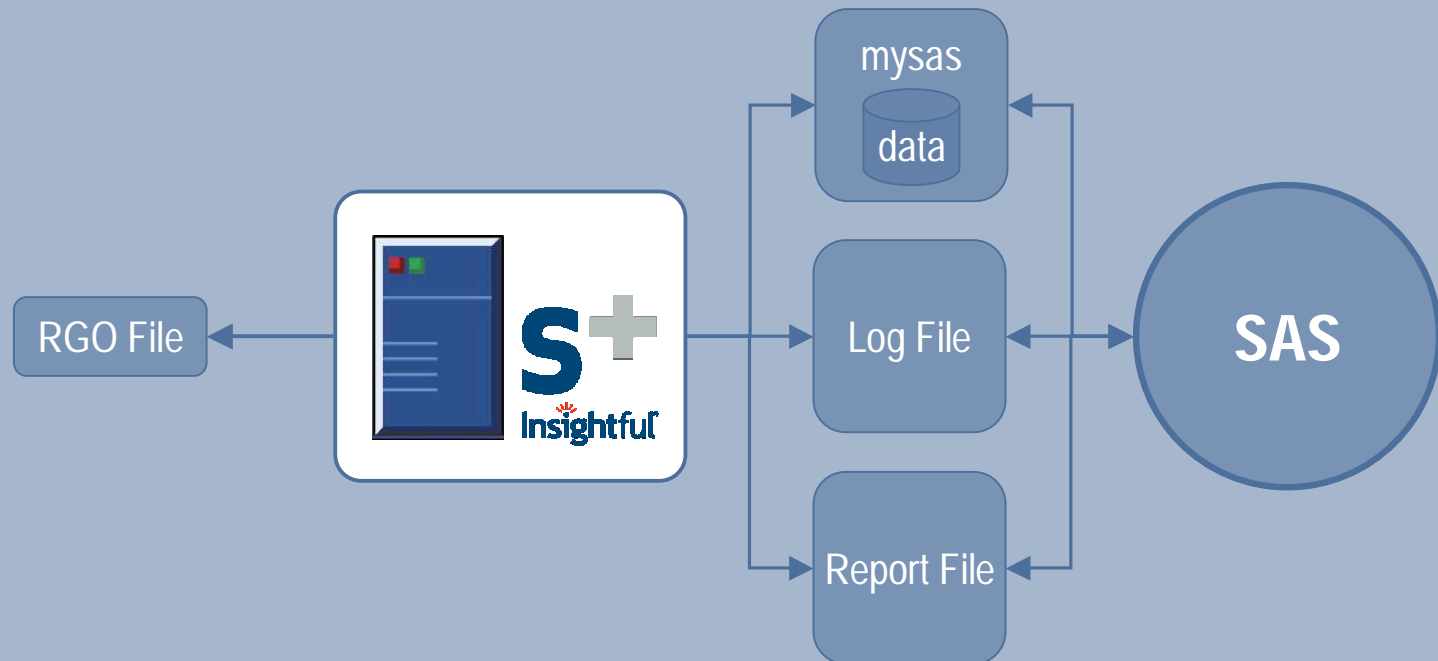
Insightful Application Suite – Response to Pharma Drivers



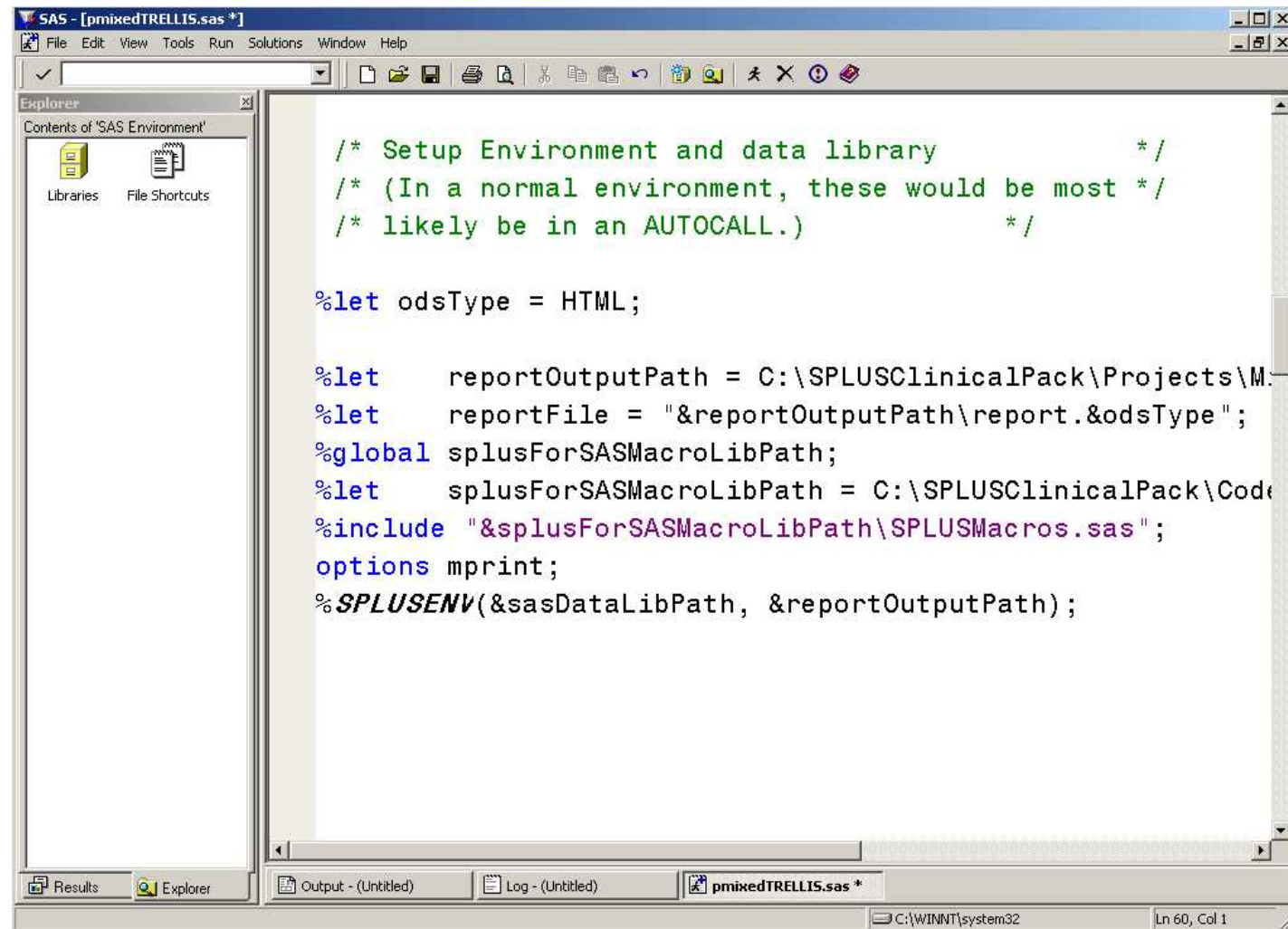
Analytics Environment



S+Clinical Pack for SAS Users



S-PLUS Reporting Workflow: Integration with Production

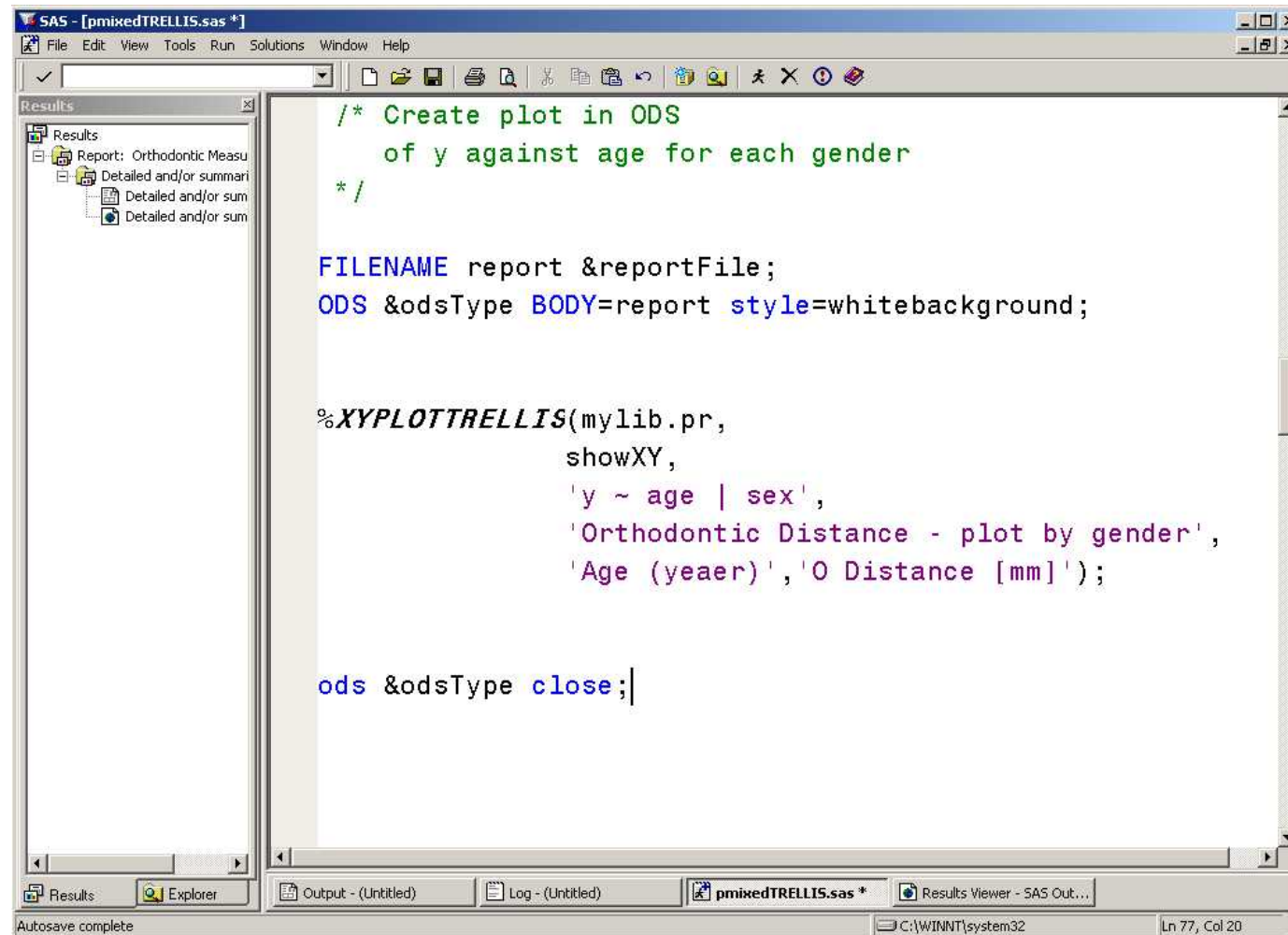


The screenshot shows the SAS software interface with a window titled "SAS - [pmixedTRELLIS.sas *]". The main editor displays the following SAS code:

```
/* Setup Environment and data library          */  
/* (In a normal environment, these would be most */  
/* likely be in an AUTOCALL.)                */  
  
%let odsType = HTML;  
  
%let reportOutputPath = C:\SPLUSclinicalPack\Projects\M...  
%let reportFile = "&reportOutputPath\report.&odsType";  
%global plusForSASMacroLibPath;  
%let plusForSASMacroLibPath = C:\SPLUSclinicalPack\Code...  
%include "&plusForSASMacroLibPath\SPLUSMacros.sas";  
options mprint;  
%SPLUSENV(&sasDataLibPath, &reportOutputPath);
```

The interface includes a menu bar (File, Edit, View, Tools, Run, Solutions, Window, Help), a toolbar, and a left-hand Explorer pane showing "Contents of 'SAS Environment'" with "Libraries" and "File Shortcuts" icons. The status bar at the bottom indicates "C:\WINNT\system32" and "Ln 60, Col 1".

S-PLUS Reporting Workflow: Integration with Production

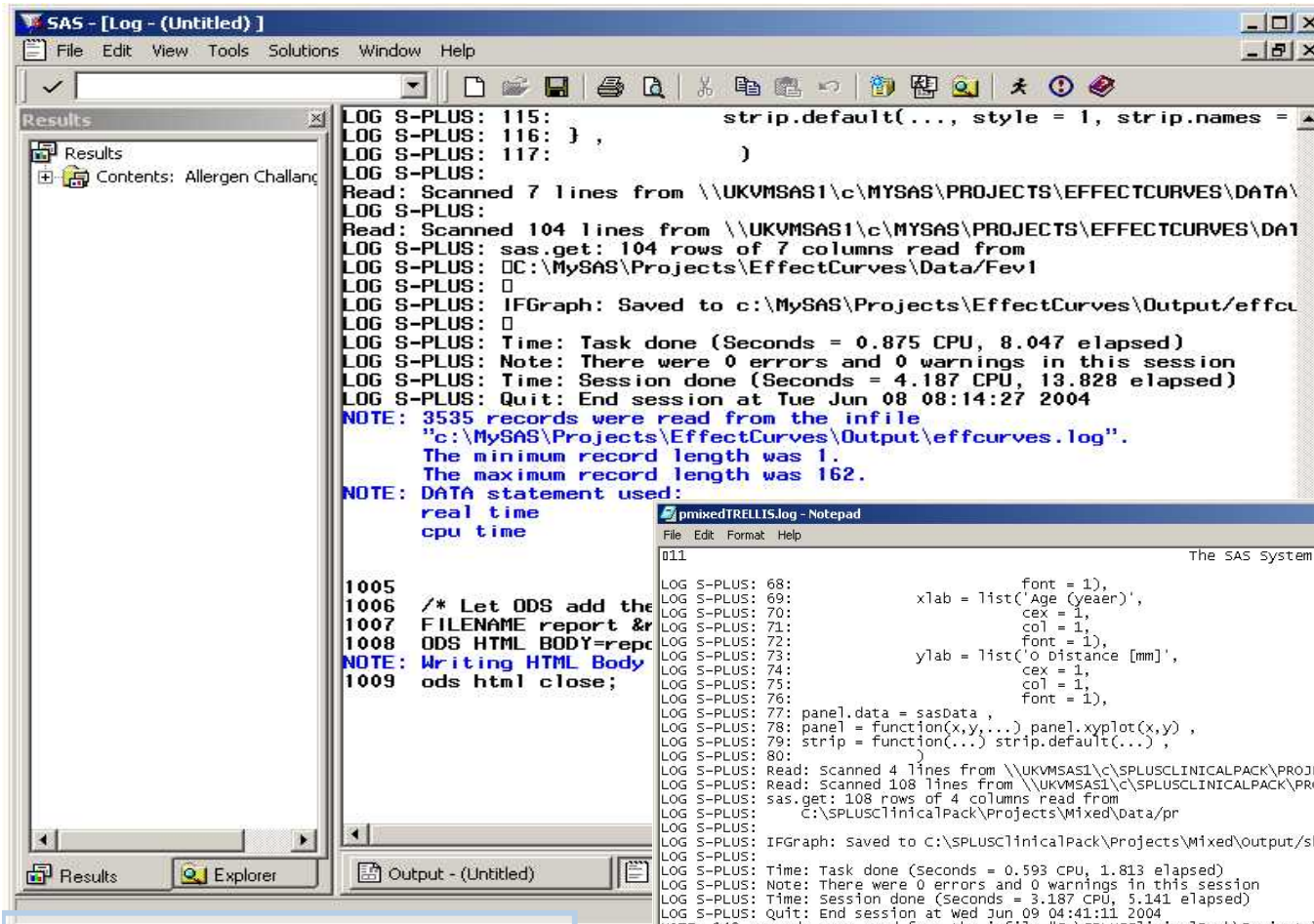


```
SAS - [pmixedTRELLIS.sas *]  
File Edit View Tools Run Solutions Window Help  
Results  
  Report: Orthodontic Measuri  
  Detailed and/or summi  
  Detailed and/or sum  
  Detailed and/or sum  
/* Create plot in ODS  
  of y against age for each gender  
*/  
  
FILENAME report &reportFile;  
ODS &odsType BODY=report style=whitebackground;  
  
%XYPLOTTRELLIS(mylib.pr,  
               showXY,  
               'y ~ age | sex',  
               'Orthodontic Distance - plot by gender',  
               'Age (yeaer)', 'O Distance [mm]');  
  
ods &odsType close;
```

Autosave complete

C:\WINNT\system32 Ln 77, Col 20

S-PLUS Reporting Workflow: Integration with Production

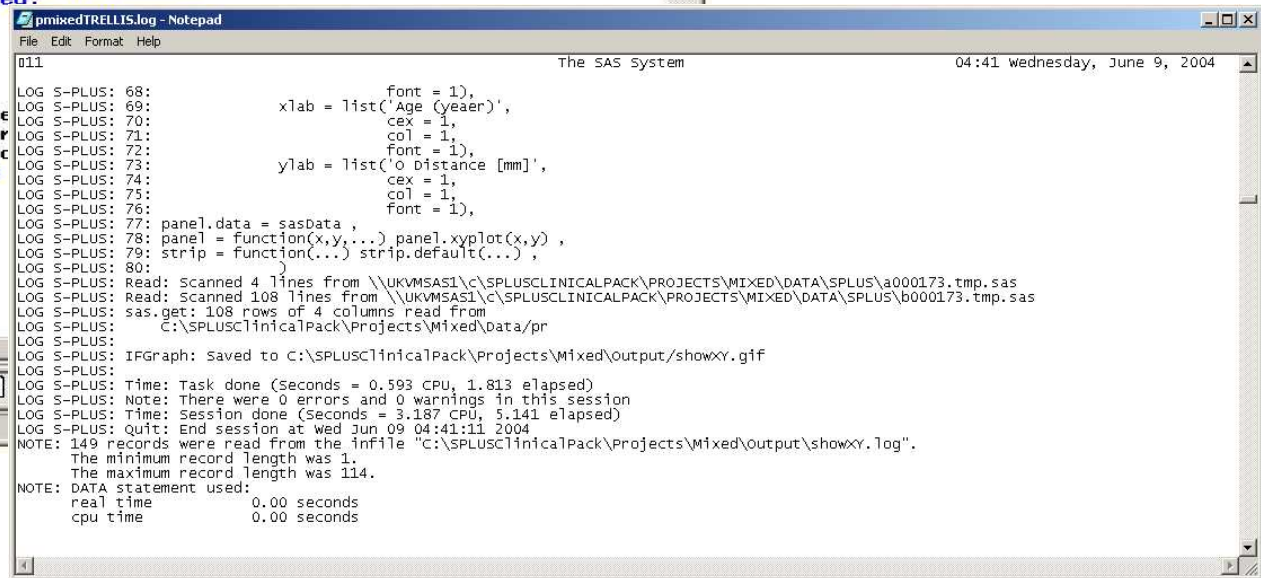


```
LOG S-PLUS: 115: strip.default(..., style = 1, strip.names =
LOG S-PLUS: 116: } ,
LOG S-PLUS: 117: )
LOG S-PLUS:
Read: Scanned 7 lines from \\UKVMSAS1\c\MYSAS\PROJECTS\EFFECTCURVES\DATA\
LOG S-PLUS:
Read: Scanned 104 lines from \\UKVMSAS1\c\MYSAS\PROJECTS\EFFECTCURVES\DA1
LOG S-PLUS: sas.get: 104 rows of 7 columns read from
LOG S-PLUS: DC:\MySAS\Projects\EffectCurves\Data\Fev1
LOG S-PLUS:
LOG S-PLUS: IFGraph: Saved to c:\MySAS\Projects\EffectCurves\Output\effcu
LOG S-PLUS:
LOG S-PLUS: Time: Task done (Seconds = 0.875 CPU, 8.047 elapsed)
LOG S-PLUS: Note: There were 0 errors and 0 warnings in this session
LOG S-PLUS: Time: Session done (Seconds = 4.187 CPU, 13.828 elapsed)
LOG S-PLUS: Quit: End session at Tue Jun 08 08:14:27 2004
NOTE: 3535 records were read from the infile
      "c:\MySAS\Projects\EffectCurves\Output\effcurves.log".
      The minimum record length was 1.
      The maximum record length was 162.
NOTE: DATA statement used:
      real time
      cpu time

1005
1006 /* Let ODS add the
1007 FILENAME report &
1008 ODS HTML BODY=rep
NOTE: Writing HTML Body
1009 ods html close;
```

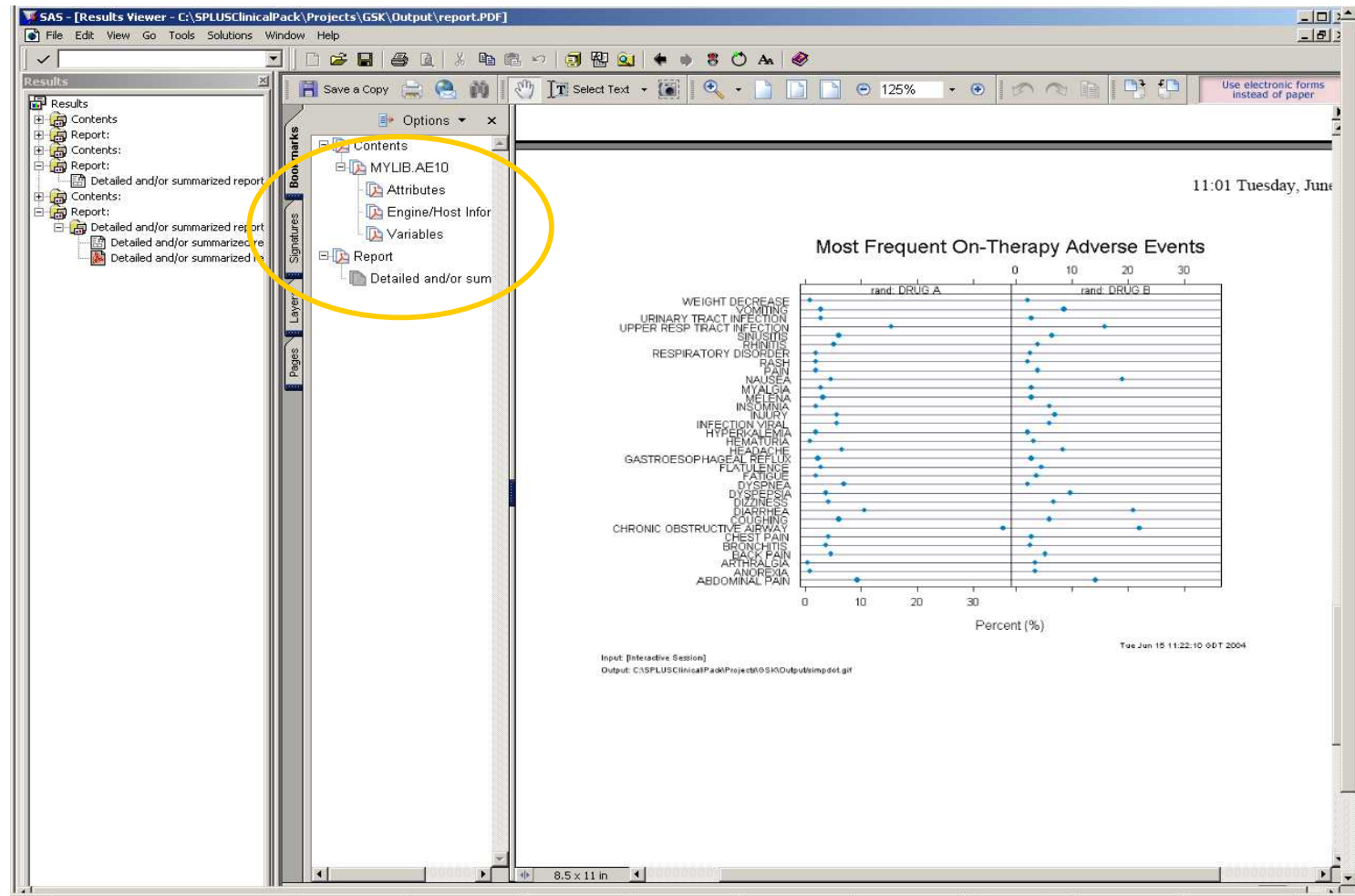
Batch saslog

Interactive saslog



```
The SAS System 04:41 wednesday, June 9, 2004
LOG S-PLUS: 68: font = 1),
LOG S-PLUS: 69: xlab = list('Age (year)',
LOG S-PLUS: 70: cex = 1,
LOG S-PLUS: 71: col = 1,
LOG S-PLUS: 72: font = 1),
LOG S-PLUS: 73: ylab = list('o Distance [mm]',
LOG S-PLUS: 74: cex = 1,
LOG S-PLUS: 75: col = 1,
LOG S-PLUS: 76: font = 1),
LOG S-PLUS: 77: panel.data = sasData ,
LOG S-PLUS: 78: panel = function(x,y,...) panel.xyplot(x,y) ,
LOG S-PLUS: 79: strip = function(...) strip.default(...),
LOG S-PLUS: 80: )
LOG S-PLUS: Read: scanned 4 lines from \\UKVMSAS1\c\SPLUSCLINICALPACK\PROJECTS\MIXED\DATA\SPLUS\ao00173.tmp.sas
LOG S-PLUS: Read: Scanned 108 lines from \\UKVMSAS1\c\SPLUSCLINICALPACK\PROJECTS\MIXED\DATA\SPLUS\bo00173.tmp.sas
LOG S-PLUS: sas.get: 108 rows of 4 columns read from
LOG S-PLUS: C:\SPLUSclinicalPack\Projects\Mixed\data/pr
LOG S-PLUS:
LOG S-PLUS: IFGraph: saved to c:\SPLUSclinicalPack\Projects\Mixed\output\showxy.gif
LOG S-PLUS:
LOG S-PLUS: Time: Task done (Seconds = 0.593 CPU, 1.813 elapsed)
LOG S-PLUS: Note: There were 0 errors and 0 warnings in this session
LOG S-PLUS: Time: Session done (Seconds = 3.187 CPU, 5.141 elapsed)
LOG S-PLUS: Quit: End session at Wed Jun 09 04:41:11 2004
NOTE: 149 records were read from the infile "c:\SPLUSclinicalPack\Projects\Mixed\output\showxy.log".
      The minimum record length was 1.
      The maximum record length was 114.
NOTE: DATA statement used:
      real time 0.00 seconds
      cpu time 0.00 seconds
```

S-PLUS Reporting Workflow: Integration with Production



```
/* Create plot of y against age, */  
/* making use PANEL function */  
%XYPLOTTRELLIS (mylib.pr, showLMXY,  
                'y ~ age | person',  
                'Orthodontic Distance - plot for each person',  
                'Age [yeaer]', 'O Distance [mm]',  
                panel = function(x,y,...) {  
                    panel.xyplot(x,y);  
                    panel.lmline(x,y);  
                });
```

Insert points
Insert regression

Could just be a fct in
S-PLUS library
panel = my.fun

ROI for Insightful Reporting Solution

