

```

1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69
70      *
71      AST 504
72
73      Zainab Akinjobi
74
75      Split plot
76
77      2 sizes of eus.
78      2 phases of randomization.
79      2 error terms.
80
81      irrigation is whole plot trt ( 3 levels ) .
82      cultivar is sub plot trt ( 4 levels ) .
83
84      no blocking ... it is a CRD in irrigation .
85
86      plant yield, yld is the response variable
87
88      =====;
89
90
91
92
93
94      data mydata ;
95
96      seed = 17757 ;
97
98      do irrig = 1 to 3 ;
99      do plot = 1 to 3 ;
100     rr = .9 * rannor(seed ) ;
101
102     do cult = 1 to 4 ;
103     yld = rr + 1.4 * irrig + 1.5*cult + 1.3*rannor(seed );
104     yld = round ( yld , 0.01 ) ;
105     output;
106     end;
107     end;
108     end;
109
110
111

```

NOTE: The data set WORK.MYDATA has 36 observations and 6 variables.

NOTE: DATA statement used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	785.28k
OS Memory	29860.00k
Timestamp	12/13/2021 03:41:55 AM
Step Count	221 Switch Count 2
Page Faults	0
Page Reclaims	91
Page Swaps	0
Voluntary Context Switches	10
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	264

```
112      proc glm  data  = mydata  ;
113      class irrig  plot cult  ;
114      model  yld  = irrig  plot(irrig )
115              cult  cult * irrig  / ss3  ;
116
117      test  h  = irrig  e  = plot ( irrig ) ;
118
119      means  irrig  /  lsd lines  e  = plot ( irrig ) ;
120
121      means irrig  cult  irrig*cult  ;
122      title1  '  split plot example  ' ;
123
124
125
126      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
136
```