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G e n e r a l A l g e b r a i c M o d e l i n g S y s t e m

C o m p i l a t i o n

1 Sets

2 i canning plants / seattle, san-diego /

3 j markets / new-york, chicago, topeka / ;

4

5 Parameters

6

7 a(i) capacity of plant i in cases

8 / seattle 350

9 san-diego 600 /

10

11 b(j) demand at market j in cases

12 / new-york 325

13 chicago 300

14 topeka 275 / ;

15

16 Parameter d(i,j) distance in thousands of miles New-York Chicago ;

17

\*\*\*\* File: C:\users\scs\My Documents\gamsdir\projdir\Transport\transport.gdx

\*\*\*\* Msg : No such file or directory

19 $gdxin transport.gdx

\*\*\*\* $510

20 $load d

\*\*\*\* $502

22

23

24 \*Table d(i,j) distance in thousands of miles

25 \* new-york chicago topeka

26 \* seattle 2.5 1.7 1.8

27 \* san-diego 2.5 1.8 1.4 ;

28

29 Scalar f freight in dollars per case per thousand miles /90/ ;

30

31 Parameter c(i,j) transport cost in thousands of dollars per case ;

32

33 c(i,j) = f \* d(i,j) / 1000 ;

\*\*\*\* $141

34

35 Variables

36 x(i,j) shipment quantities in cases

37 z total transportation costs in thousands of dollars ;

38

39 Positive Variable x ;

40

41 Equations

42 cost define objective function

43 supply(i) observe supply limit at plant i

44 demand(j) satisfy demand at market j ;

45

46 cost .. z =e= sum((i,j), c(i,j)\*x(i,j)) ;

47

48 supply(i) .. sum(j, x(i,j)) =l= a(i) ;

49

50 demand(j) .. sum(i, x(i,j)) =g= b(j) ;

51

52 Model transport /all/ ;

53

54 Solve transport using lp minimizing z ;

\*\*\*\* $257

55

56 Display x.l, x.m ;

\*\*\*\* $141

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G e n e r a l A l g e b r a i c M o d e l i n g S y s t e m

Error Messages

141 Symbol declared but no values have been assigned. Check for missing

data definition, assignment, data loading or implicit assignment

via a solve statement.

A wild shot: You may have spurious commas in the explanatory

text of a declaration. Check symbol reference list.

257 Solve statement not checked because of previous errors

502 GDXIN file not open - ignore rest of line

510 Unable to open gdx file for $GDXIN

\*\*\*\* 5 ERROR(S) 0 WARNING(S)

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G e n e r a l A l g e b r a i c M o d e l i n g S y s t e m

Include File Summary

SEQ GLOBAL TYPE PARENT LOCAL FILENAME

1 1 INPUT 0 0 C:\users\scs\My Documents\gamsdir\proj

dir\Transport\SCS\_Transport.gms

2 18 CALL 1 18 gdxxrw.exe transport.xls par=d rng=Dis

tances!A1:D3 rdim=1 cdim=1 trace=3

COMPILATION TIME = 0.600 SECONDS 3 MB 25.0.2 r65346 WIN-VS8

USER: GAMS Development Corporation, USA G871201/0000CA-ANY

Free Demo, +1 202-342-0180, support@gams.com, www.gams.com DC0000

\*\*\*\* FILE SUMMARY

Input C:\users\scs\My Documents\gamsdir\projdir\Transport\SCS\_Transport.gms

Output C:\users\scs\My Documents\gamsdir\projdir\Transport\SCS\_Transport.lst

\*\*\*\* USER ERROR(S) ENCOUNTERED